

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
	316 quadruple	1.4401	X5CrNiMo17-12-2	S31600	316	Standard
Austenitic Stainless Steel	certified*	1.4404	X2CrNiMo17-12-2	S31603	316L	Standard
-	6Mo	1.4547	X 1CrNiMoCuN20-18-7	S31254		Standard
Austenitic-Ferritic	Duplex	1.4462	X2CrNiMoN22-5-3	S31803	F51	Standard
Stainless Steel	Superduplex	1.4410	X2CrNiMoN25.7.4	S32750	F53	Standard
	Alloy 400	2.4360	NiCu30Fe	N04400		Standard
Nickel Based	Alloy C-276	2.4819	NiMo 16 Cr 15 W	N10276		Standard
Alloys	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 \rightarrow 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 Graphite Packing FKM O-ring Stem Seal with PCTFE Soft Tip TA-Luft Option

WHITE BLACK ORANGE MAGENTA

Lock Pin

Eliminates unauthorized removal of the bonnet assembly.

Bonnet

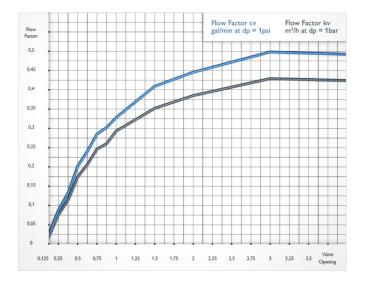
Metal to Metal Seal to Valve Body.

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



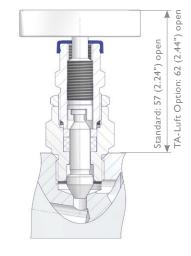
Standard Needle Valves

Screwed Bonnet - Stem Seal: Packing

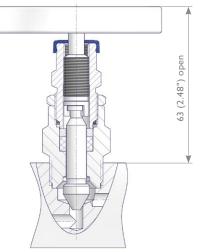
Features

- 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

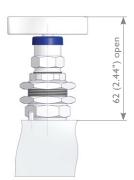
Oxygen Service



TA-Luft Option



Panel Mount Option



Components	Stainless Steel				Exotic Alloys			
Components				Material / N	1aterial No.			
Body								
Bonnet	247 / 2471	A.U. 400	All. C 274	D 1	LINIC C227F0	AU. (25	ZM.	T::: C : 2
Needle	316 / 316L	Alloy 400	Alloy C-276	Duplex	UNS \$32750	Alloy 625	6Mo	Titanium Gr. 2
Pipe Plug								
Valve Stem				316 /	316L			
Gland				3	16			
Packing				PTFE or	Graphite			
Stem Nut				3	16			
Lock Nut				3	16			
Set Screw				3	16			
T Handle				3	16			
Lock Pin				A4 ((316)			

Wetted components listed in **bold**.

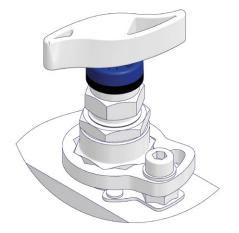
Standard Valve Head Units

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

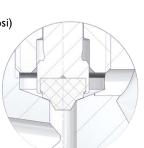


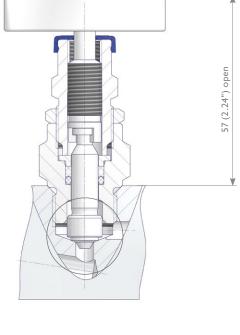
Needle Valves with O-Ring Stem Seal

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

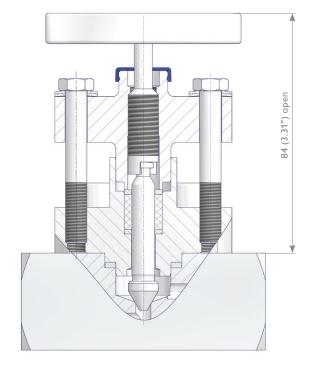
with PCTFE Soft Tip

Needle Valves with OS&Y Bolted Bonnet

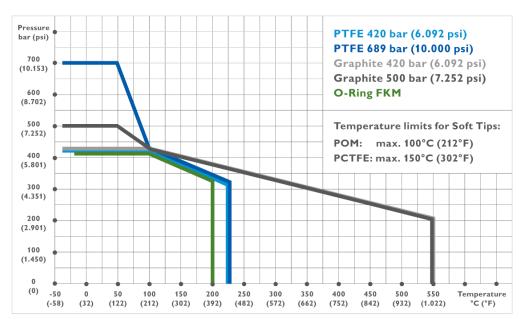
OS&Y Bolted Bonnet - Standard Packing

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



Above-mentioned Pressure-Temperature Rating is based on the standard material 316 stainless steel. Other materials as shown on page 4 and 6 might have different Pressure-Temperature Ratings.

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)
- Carbon Steel ASTM A105: -29°C (20.2°F)



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



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

Valve Head Units for Fugitive Emission Applications

Needle Valves acc. to ISO 15848

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

Features

- Integral Valve Seat Metal to Metal Seated
- · Non-rotating Needle
- External Stem Thread Packing below stem threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.
- · Stem with cold rolled threads
- Back Seat Metal to metal secondary needle seal
- 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

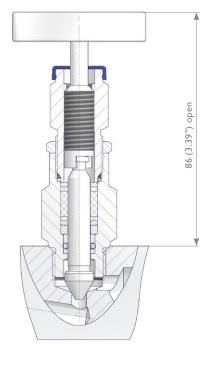
ISO FE Type 1:

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

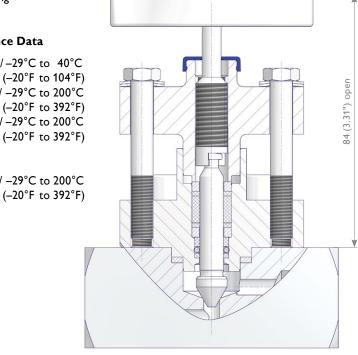
- Integral Valve Seat Metal to Metal Seated
- Non-rotating Needle
- External Stem Thread Packing below stem threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.
- · Stem with cold rolled threads
- Blow-out proof Needle
- Spring Washers for compensation 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

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 I/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.



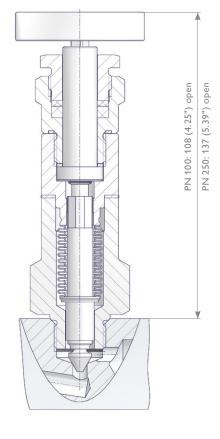
Packing adjustment may be required during the service life of the valves.



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

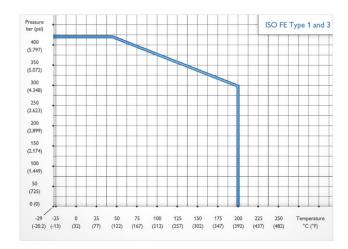


When delivered ex factory, the safety packing of the belllows sealed valve is not fully tightened. In the event of a bellows failure the safety packing must be tightened in order to avoid fluid leakage.



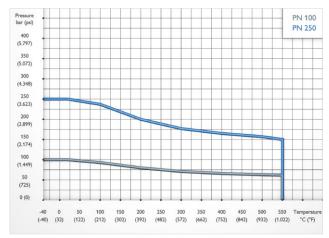
Pressure-Temperature Rating

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



Pressure-Temperature Rating

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



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

Other materials as shown on page 4 and 6 might have different Pressure-Temperature Ratings.

Valve Head Unit Options

Anti-Tamper Valve Head Unit Options

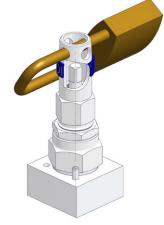
AS-Schneider is providing 2 Anti-Tamper Valve Head Units, both types are lockable with a padlock.

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

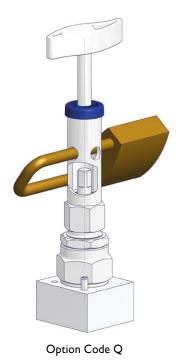
Incl. Padlock; Option Code U

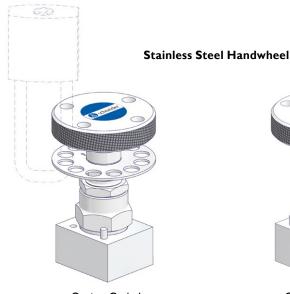
'AT-Key Lock' Anti-Tamper Head Unit (Option Code Q)

'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 |). For ordering the 'Locking Plate' Design incl. padlock you need to state | and U. This design allows minimum handle movements and is ideal as protection against unauthorised closing of the valve.







Option Code J

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

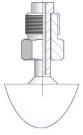


Socket Weld Ends for Pipes and Tubes acc. to EN12760 / ASME B16.11

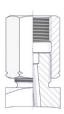


Pressure Gauge Connections -For Parallel Pipe Threads only

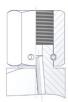
Swivel Male Connection



Adjusting Nut acc. to DIN 16283



Swivel Nut (Wire Design)



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

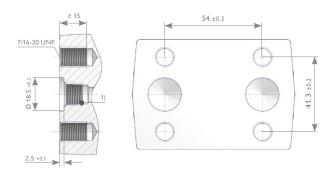


Connections | DIN EN 61518 / IEC 61518

Flange Connections

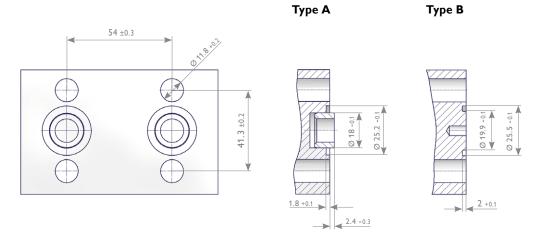
According to DIN EN 61518 the manifold-transmitter interface is applicable for a max. allowable (Working) Pressure (PS) of 413 bar*3 (6,000 psi) and a max. allowable Temperature (TS) of 120°C (248°F) for liquids, gas or vapors. The max. allowable Temperature (TS) of 120°C (248°F) is considering the requirement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



	Со	nnection at the mar	nifold acc. to IEC 615	518 / DIN EN 615	18*1 *3
		Type A with spigo	ot	Type B w	ithout 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 24×17.7×2.7 Material: PTFE	O-Ring ISO 3601-1 20×2.65 S-FPM90 Material: FPM (FKM by ASTM)	Flat Ring 25.1 x 18 x 2.9 Material: Graphite	Flat Ring 25.4×20×2.7 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).

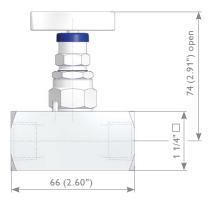
Hand Valves

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

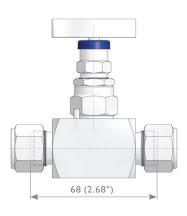


Hand Valve Male x Female Threaded HAMF Type

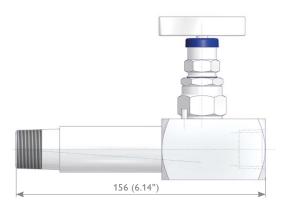




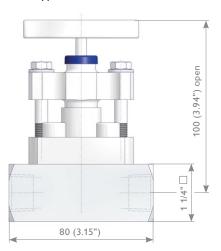
Hand Valve with Integral Tube Fittings HATT Type



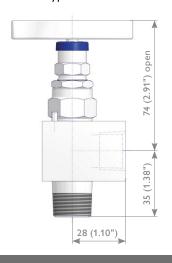
Hand Valve with Extended Body HXMF Type Extended by approx. 3"



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	
					н	Α	Т	Т	S	Α	-	R	4	R	4	-	М	S		ï
Н	Hand Valves																			
	Basic Design																			
A	Screwed Bonnet	L	Angle Hand Valve (Screwed	l Bonne	et)															
F	OS&Y Bonnet	Х	Extended Body (Screwed Bor	nnet)																
	Inlet																			
M F	Male Female	B S	Butt Weld End Socket Weld End																	
T	Integral Tube Fitting	A	1/2 NPT with Tube Fitting																	
	Outlet																			
M	Male	В	Butt Weld End																	
F T	Female Integral Tube Fitting	S	Socket Weld End 1/2 NPT with Tube Fitting																	
	Material																			
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	В		S S31254														
M	Alloy 400 UNS N04400	D	Super Duplex UNS \$32750	Т	Titanium	Grade 2														
Н	Alloy C-276 UNS N10276 Bonnet	٧	Alloy 625 UNS N06625																	
A	PTFE	K	O-Ring FKM (FPM by ISO)																	
В	Graphite	W	Carbon filled PTFE – TA-Luft																	
D E	ISO FE Series Type 1 ISO FE Series Type 3	2	Bellows sealed PN 100 Bellows sealed PN 250																	
	Inlet																			
	Thread Type		Fitting Type		Butt Wel	d End			Socke	t W eld	l End									
N	NPT	C	Single Ferrule Tube Fitting	4	1/2" Pipe			D			be (Ø 12									
H R	BSP Parallel (G) – DIN 3852-2 BSP Taper (R/Rc) – ISO 7/1	K	Twin Ferrule Tube Fitting	6 D	3/4" Pipe 12 mm			E 2		· mm iui 4" Pipe	be (Ø 14	25 mm	1)							
	, ,			E	14 mm					•										
	Inch Sizes		Tube Fitting Sizes			ckness Bu	ıtt W eld	Α	Socke	t Weld	l									
2 4	1/4 1/2	1 2	6 resp. 6S 8 resp. 8S	P Q	Schedule Schedule															
6	3/4	3	10 resp. 10S	2	2.0 mm	100														
		4	12 resp. 12S	8	2.6 mm															
		8	1/4" 3/8"	Α	3.2 mm															
		9	1/2"																	
	Outlet																			
N	Thread Type NPT	С	Fitting Type Single Ferrule Tube Fitting	4	Butt Wel			D		t Weld mm Tul	l End be (Ø 12	2 mm)								
Н	BSP Parallel (G) - DIN 3852	K	Twin Ferrule Tube Fitting	6	3/4" Pipe			E	For 14	mm Tul	be (Ø 14									
R	BSP Taper (R/Rc) - ISO 7/1			D E	12 mm 14 mm			2	For 1/4	4" Pipe										
	Inch Sizes		Tube Fitting Sizes			ckness Bu	.44\ A /ald	Α	Casles	t Weld	1									
2	1/4	1	6 resp. 6S	Р	Schedule		itt vveiu		JUCKE	t vveiu										
4	1/2	2	8 resp. 8S	Q	Schedule	160														
6	3/4	3 4	10 resp. 10S 12 resp. 12S	2	2.0 mm 2.6 mm															
		7	1/4"	Α	3.2 mm															
		8	3/8" 1/2"																	
	Options - Specify in alpha		al order (digits first, then let	tters)																
В			Service – For PTFE Packing on																	
F	PCTFE Soft Tip																			
G S	POM Soft Tip Stellite Valve Tip																			
Н	10,000 psi (689 bar) for PTFE		ng I 7,252 psi (500 bar) for Grap	phite Pa	cking															
P K	Power Piping ASME B31.1 – F Arctic Operations (-55°C (-6')																			
М	Wetted Parts with 3.1 certific																			
С	Panel Mounting																			
	Operation Options																			
	Stainless Steel Handwheel v Anti-Tamper Bonnet (Key to																			
J T	ramper borniet (ive) to																			
J T R	Anti-Tamper Bonnet (1 Key s	upplied	d per Valve/Manifold)																	
Т	Anti-Tamper Bonnet (1 Key s AT-Key Lock Bonnet Design Padlock for Anti-Tamper Bon																			

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

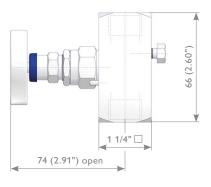
Gauge Valves

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.

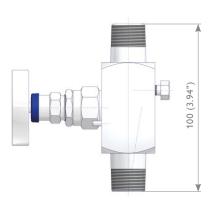
You find a lot more options on the next page – Ordering Information Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 48-53.

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.

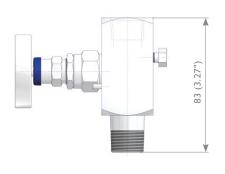
Gauge Valve Female x Female ThreadedGSFF Type

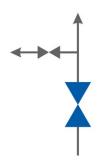


Gauge Valve Male x Male Threaded GSMM Type

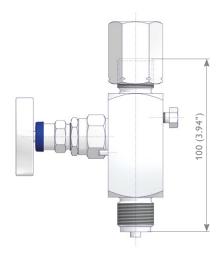


Gauge Valve Male x Female ThreadedGSMF Type

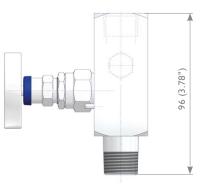




Gauge Valve Male x Adjusting Nut GSMG Type



Gauge Valve Male x Female Threaded GAMF Type



Female Threaded Vent Connection - Pipe Plug installed



Ordering Information

G Garge Valves						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Verticonaction						G	S	М	F	S	В	-	N	4	N	4		М			
Veni Connection																					
Note Color	G	Gauge Valves																			
Marker M		Vent Connection																			
March Section Sectio	S	Bleed Screw	С	G 1/4 Female																	
Micha			D	G 1/2 Female																	
Process																					
Marian	F	Female	S	Socket Weld End																	
Material		Outlet																			
S									f only)												
May		Material																			
A	М	Alloy 400 UNS N04400	D	Super Duplex UNS S32750																	
B		Bonnet																			
Boliver sealed PN 100 Boliver sealed PN 100 Boliver sealed PN 200 Boli																					
Thread Type	D	ISO FE Series Type 1	2	Bellows sealed PN 100	t																
No. NPT C Single Formula Tube Fitting 4 1/2* Pape E For 1 4 mm Tube (0.12.2 mm)		Inlet																			
G By Parallel (G) — EN 837-1 K							l End														
R																					
14	R	BSP Parallel (G) – DIN 3852 BSP Taper (R/Rc) – ISO 7/1				12 mm			2			·		ĺ							
4 1/2 5 14 resp. 14S Q Schedule 160 2 2.0 mm	2				_			ıtt W eld	ΙΑ	Socke	et W eld	ı									
Metric Size 4 M 20 x 1.5 Outlet Male / Female Thread Sizes Thread Sizes EN 837-1 - Female Threads only Male / Female Thread only 1/2 NPT Female Thread only 1/2 NPT G2 G 1/4 (1/4 BSP P) M4 M 20 x 1.5 Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options - Specify in alphabetical order (digits first, then letters) Options -				· ·																	
Outlet Male / Female Thread Sizes Male / Male / Female Thread Sizes Male / Ma	6	3/4	9	1/2"	8	2.6 mm															
Male / Female Thread Sizes N2 1/4 NPT Female Thread only Al 1/2 NPT GRAPH Rich 12 – ISO 7/1 (1/2 BSPT) Female Thread only 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 gis (689 bar) for PTFE Packing 1 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 Wetted Parts with 3.1 certificate C Panel Mounting Operation Options S tainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) R Anti-Tamper Bonnet (Key to be ordered separately) P Padlock for Anti-Tamper Bonnet (AT-Key Lock Bonnet Design V Stainless Steel Handwheel Accessory Kits	4																				
N2 1/4 NPT Female Thread only G2 G 1/4 (1/4 BSP P) G4 G1 (2 I(2 I(2 I(2 I(2 I(2 I(2 I(2 I(2 I(2		Outlet																			
N4 1/2 NPT G4 R/Rc 1/2 – ISO 7/1 (1/2 BSPT) H4 M2 x1.5 Columb and Lubricated for Oxygen Service – For PTFE Packing only F PCTFE Soft Tip For PTFE Packing only For PTFE Packing I 7.252 psi (500 bar) for Graphite Packing Fower Piping ASME B31.1 - For Graphite Packing only Fower Piping ASME B31.1 - For Graphite Packing only Wetted Parts with 3.1 certificate Panel Mounting Panel Mounting Panel Mounting Panel Mounting Packing Place Panel Mounting Panel					Female	e Threads onl	у														
R4 R/Rc 1/2 – ISO 7/1 (1/2 BSPT) M4 M20x1.5 Female Thread only 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 17,252 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 W 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 Stainless Steel Handwheel																					
B Cleaned and Lubricated for Oxygen Service – For PTFE Packing only F PCTFE Soft Tip 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 Wetted Parts with 3.1 certificate Panel Mounting Operation Options Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold) AT-Key Lock Bonnet Design U Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design Stainless Steel Handwheel		R/Rc 1/2 – ISO 7/1 (1/2 BSPT)																			
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 Wetted Parts with 3.1 certificate C Panel Mounting Operation Options J Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold) AT-Key Lock Bonnet Design U Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design Stainless Steel Handwheel Accessory Kits																					
G POM Soft Tip S Stellite Valve Tip 10,000 psi (689 bar) for PTFE Packing 17,252 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 W tetted Parts with 3.1 certificate C Panel Mounting Operation Options J Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) R Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold) Q AT-Key Lock Bonnet Design V Stainless Steel Handwheel Accessory Kits			xygen	Service – For PTFE Packing or	nly																
H 10,000 psi (689 bar) for PTFE Packing 1 7,252 psi (500 bar) for Graphite Packing P Power Piping ASME B31.1 - For Graphite Packing only Arctic Operations (-55°C (-67°F)) – For PTFE Packing only Wetted Parts with 3.1 certificate Panel Mounting Operation Options Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold) AT-Key Lock Bonnet Design V Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design Stainless Steel Handwheel Accessory Kits	G	POM Soft Tip																			
P Power Piping ASME B31.1 - For Graphite Packing only K Arctic Operations (-55°C (-67°F)) - For PTFE Packing only Wetted Parts with 3.1 certificate Panel Mounting Operation Options J Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately) R Anti-Tamper Bonnet (I Key supplied per Valve/Manifold) AT-Key Lock Bonnet Design Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design Stainless Steel Handwheel Accessory Kits		· ·	Packir	ng I 7,252 psi (500 bar) for Gra	phite P	acking															
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																					
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	М	Wetted Parts with 3.1 certific		FOR PIPE PACKING ONLY																	
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																					
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																					
U Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design W Stainless Steel Handwheel Accessory Kits	R	Anti-Tamper Bonnet (1 Key su																			
	U	Padlock for Anti-Tamper Bonn	net / A	T-Key Lock Bonnet Design																	
	8		Type f	or 2" Pipe Mounting supplied s	eparat	ely – For Vert	ical Impi	ulse Pipir	ng Instal	ations											

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

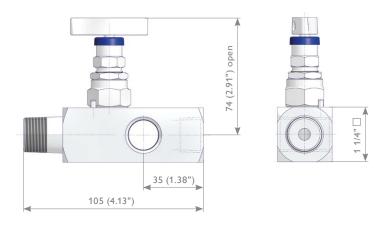
Multiport Gauge Valves

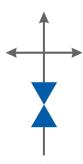
AS-Schneider Multiport Gauge Valves are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard types are provided with 3 female outlet ports and are therefore suitable for vertical or horizontal installations.

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

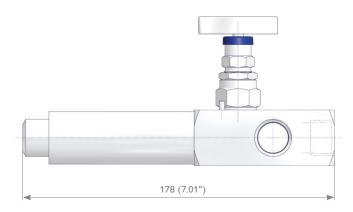


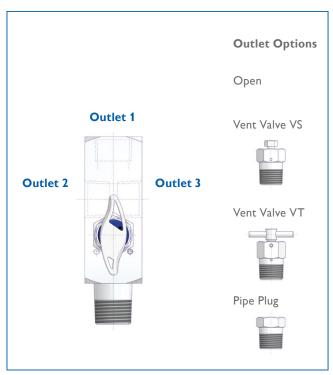


Multiport Gauge Valve with Extended Body

MXBA Type

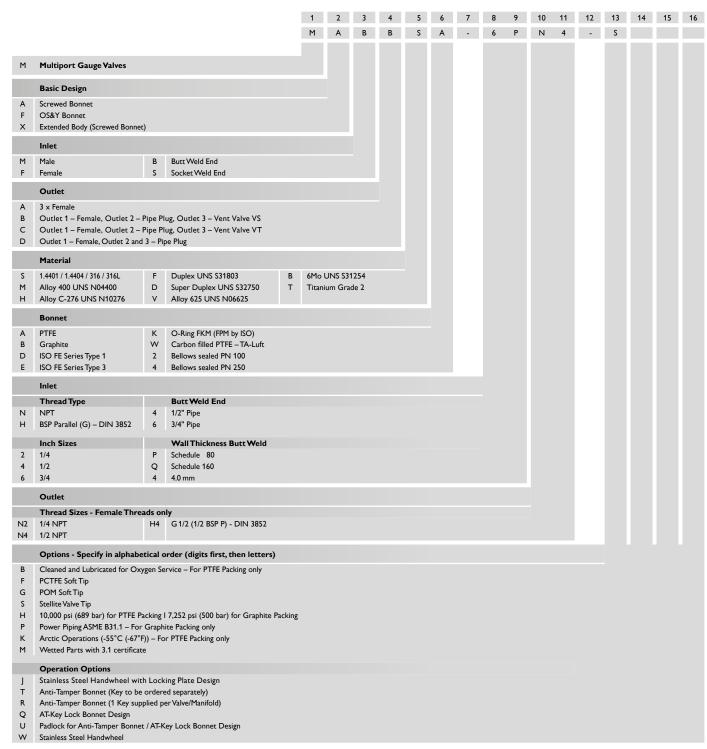
Extended by approx. 3"





Multiport Gauge Valves

Ordering Information



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

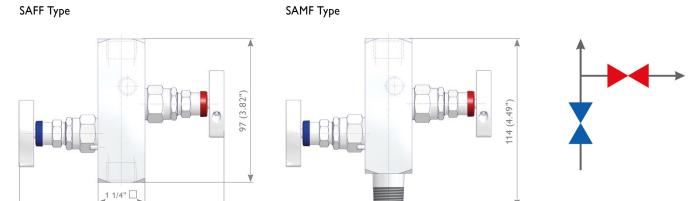
Block & Bleed and Double Block & Bleed Manifolds

148 (5.83") open

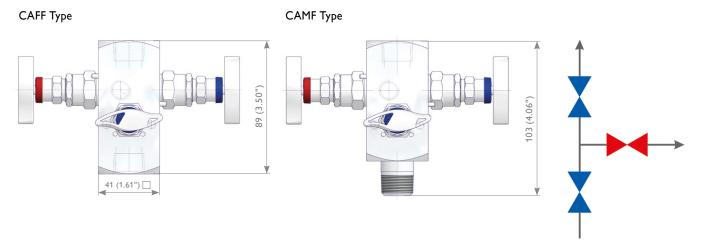
AS-Schneider Block & Bleed and Double Block & Bleed Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) – see also options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



Double Block & Bleed Manifolds - Female Threaded Instrument Connection







Block & Bleed and Double Block & Bleed Manifolds

Ordering Information

					1 S		2 A	3 M	4 F	5 M	6 A	7	8 N	9	10 N	11 4	12	13	14 Q	15 U	16
c	Disable Disab Manifolds																				
S C	Block & Bleed Manifolds Double Block & Bleed Ma	nifold	s																		
	Vent Connection																				
Α	1/4 NPT Female	С	G 1/4 Female																		
В	1/2 NPT Female	D	G 1/2 Female																		
	Inlet																				
M F T	Male Female Integral Tube Fitting	B S A	Butt Weld End Socket Weld End 1/2 NPT with Tube Fitting																		
	Outlet																				
M F	Male Female	G D	Adjusting Nut (For Connect Swivel Nut [Wire Design] (F						only)												
	Material								,,												
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	В	6Mo UNS	S S31	1254														
M H	Alloy C-276 UNS N10276	V	Super Duplex UNS S32750 Alloy 625 UNS N06625	Т	Titanium	Grad	de 2														
	Bonnet																				
A B	PTFE Graphite	K	O-Ring FKM (FPM by ISO) Carbon filled PTFE – TA-Luft	t																	
D E	ISO FE Series Type 1 ISO FE Series Type 3	2 4	Bellows sealed PN 100 Bellows sealed PN 250																		
	Inlet																				
	Thread Type		Fitting Type		Butt We		nd				t Weld										
N G	NPT BSP Parallel (G) – EN 837-1	C K	Single Ferrule Tube Fitting Twin Ferrule Tube Fitting	4 6	1/2" Pipe 3/4" Pipe				D E			be (Ø 12 be (Ø 14)							
Н	BSP Parallel (G) – DIN 3852			D	12 mm				2	For 1/4		(,							
R M	BSP Taper (R/Rc) – ISO 7/1 Metric similar to EN 837-1			E	14 mm																
	Inch Sizes		Tube Fitting Sizes		Wall Thi			t Weld	Α	Socke	t Weld	ı									
2	1/4 1/2	4 5	12 resp. 12S 14 resp. 14S	P Q	Schedule Schedule																
6	3/4	9	1/2"	2 8 A	2.0 mm 2.6 mm 3.2 mm																
4	Metric Size M 20 x 1.5																				
	Outlet																				
	Male / Female Thread Size	es			Thread	Size	s EN	837-1 -	Female	Thread	only										
N2 N4	1/4 NPT Female Thread only 1/2 NPT			G2 G4	G 1/4 (1/4 G 1/2 (1/2																
R4	R/Rc 1/2 – ISO 7/1 (1/2 BSPT)	Female	Thread only		M 20 x 1.5		'',														
	Options - Specify in alpha	betica	l order (digits first, then le	tters)																	
В		xygen	Service – For PTFE Packing or	nly																	
F G	PCTFE Soft Tip POM Soft Tip																				
S	Stellite Valve Tip																				
A H	Vent Ports Plugged	Packir	ng I 7,252 psi (500 bar) for Gra	phita P	ncking																
P	Power Piping ASME B31.1 – Fe		• • •	ipilice i i	ickii 6																
K M	Arctic Operations (-55°C (-67) Wetted Parts with 3.1 certific		For PTFE Packing only																		
	Operation Options																				
J	Stainless Steel Handwheel w																				
T R	Anti-Tamper Bonnet (Key to I Anti-Tamper Bonnet (1 Key so																				
Q	AT-Key Lock Bonnet Design																				
U W	Padlock for Anti-Tamper Bonr Stainless Steel Handwheel	net / A	T-Key Lock Bonnet Design																		
	Accessory Kits																				
8	SST Mounting Bracket AKM-S		or 2" Pipe Mounting supplied s	-	-				-												
9 Wetted	-		pe for 2" Pipe Mounting supp material list are supplied accor-							_						ifolds [*]	Туре С				

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.

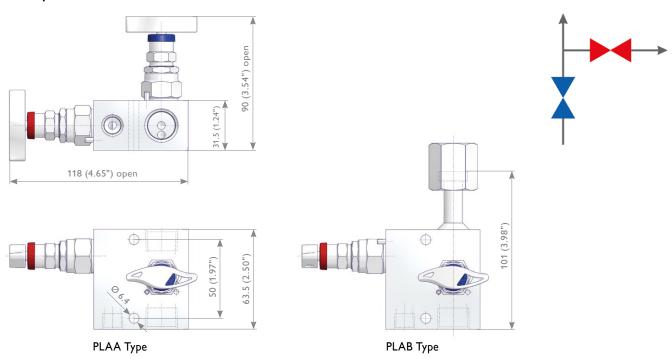
L, Y & W-Shaped Manifolds

L, Y & W-Shaped Manifolds

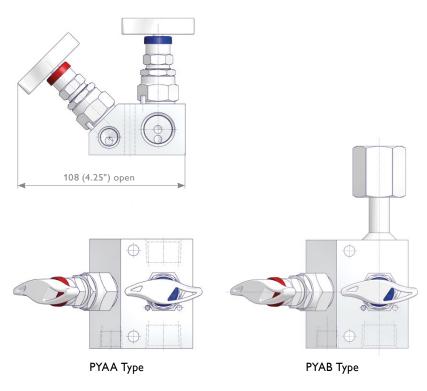
AS-Schneider L, Y & W-Shaped Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard. For plugged vent ports (factory installed) – see also options Page 24 – Ordering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

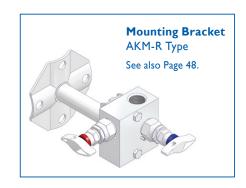
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

L-Shaped Manifolds



Y-Shaped Manifolds

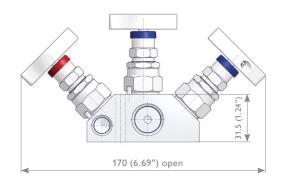


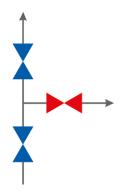


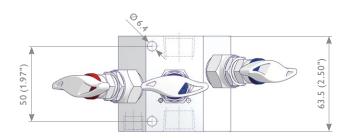
L, Y & W-Shaped Manifolds

W-Shaped Manifolds

PWAA Type









L, Y & W-Shaped Manifolds

Ordering Information

					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					Р	L	Α	В	S	Α	-	N	4	G	4	-	Α	М	S	
Р	L,Y & W-Shaped Manifolds																			
	Manifold Type																			
L Y	L-Shaped Bonnet Orientation Y-Shaped Bonnet Orientation																			
w	W-Shaped Bonnet Orientation → I	Double	Block & Bleed Type																	
	Vent Connection																			
Α	1/4 NPT Female	F	1/4 NPT with Tube Fitting 6 mm																	
В	1/2 NPT Female – Only Type PL G 1/4 Female	G H	1/4 NPT with Tube Fitting 12 mm G 1/4 with Tube Fitting 6 mm	n																
D	G 1/2 Female – Only Type PL	J	G 1/4 with Tube Fitting 12 mm																	
			Tube Fitting Brand see inlet/outle	let																
	Inlet x Outlet Configuration																			
Α	Female x Female	E	G 1/2 with Tube Fitting x Female																	
B C	Female x Swivel Nut 1/2 NPT with Tube Fitting x	F	G 1/2 with Tube Fitting x Swivel	Nut																
	Female																			
D	1/2 NPT with Tube Fitting x Swivel Nut																			
	Material																			
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS \$31803 E		6Mo UN															
M H	Alloy 400 UNS N04400 Alloy C-276 UNS N10276	D V	Super Duplex UNS S32750 T Alloy 625 UNS N06625	'	Titanium	Gradi	e z													
	Bonnet																			
Α	PTFE	K	O-Ring FKM (FPM by ISO)																	
B D	Graphite ISO FE Series Type 1	W 2	Carbon filled PTFE – TA-Luft Bellows sealed PN 100																	
E	ISO FE Series Type 3	4	Bellows sealed PN 250																	
	Inlet																			
N	Thread Type NPT	С	Fitting Type Single Ferrule Tube Fitting																	
Н	BSP Parallel (G) – DIN 3852	К	Twin Ferrule Tube Fitting																	
	Thread Size		Tube Fitting Sizes																	
2 4	1/4 1/2	4	12 resp. 12S 1/2"																	
	Outlet																			
	Thread Type																			
N4 G4	1/2 NPT Female G 1/2 Swivel Nut																			
M4	M 20 x 1.5 Swivel Nut																			
	Options - Specify in alphabetic	al or	der (digits first, then letters)																	
В	Cleaned and Lubricated for Oxyge	n Serv	ice – For PTFE Packing only																	
F G	PCTFE Soft Tip POM Soft Tip																			
S	Stellite Valve Tip																			
A H	Vent Ports Plugged 10,000 psi (689 bar) for PTFE Pack	ing I 7	.252 psi (500 bar) for Graphite Pag	cking																
Р	Power Piping ASME B31.1 – For G	raphite	Packing only																	
K M	Arctic Operations (-55°C (-67°F)) Wetted Parts with 3.1 certificate	– For I	PTFE Packing only																	
	Operation Options																			
J	Stainless Steel Handwheel with L		=																	
T R	Anti-Tamper Bonnet (Key to be or Anti-Tamper Bonnet (1 Key supplie																			
Q	AT-Key Lock Bonnet Design																			
W	Padlock for Anti-Tamper Bonnet / A Stainless Steel Handwheel	AT-Key	Lock Bonnet Design																	
	Accessory Kits																			
8	SST Mounting Bracket AKM-R Type							-												

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.

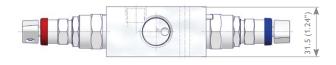
Remote Mounted Manifolds

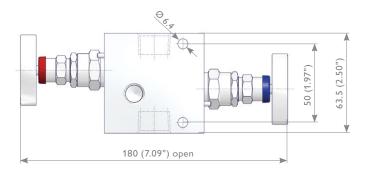
Remote Mounted Manifolds (2, 3 and 5 Valve Manifolds)

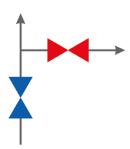
AS-Schneider Remote Mounted Manifolds are designed for remote installation from Pressure Instruments and Differential Pressure Transmitters. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard to 2 and 5 Valve Manifolds. For plugged vent ports (factory installed) - 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.

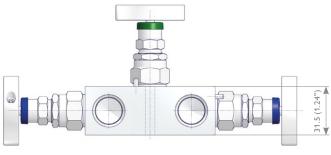
2 Valve Manifolds, Remote Mounted R2AA Type

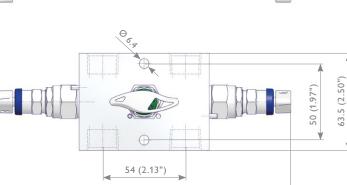




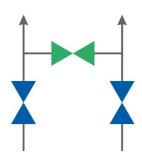


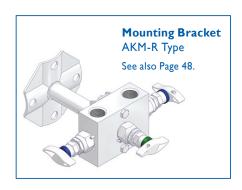
3 Valve Manifolds, Remote Mounted without Vent Connection R3AA Type





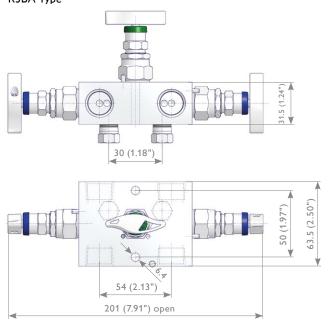
201 (7.91") open

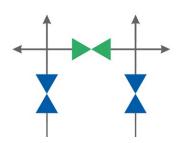




Remote Mounted Manifolds

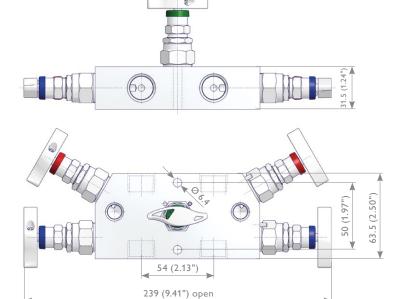
3 Valve Manifolds, Remote Mounted with Vent Connection 1/4 NPT Female R3BA Type

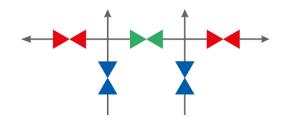


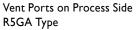


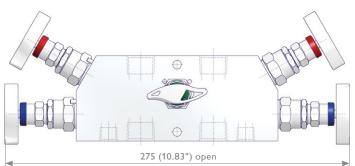
AKM-R Type Mounting Bracket not suitable.

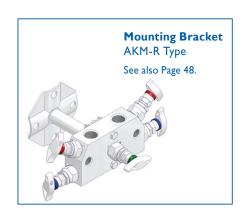
5 Valve Manifolds, Remote Mounted R5AA Type





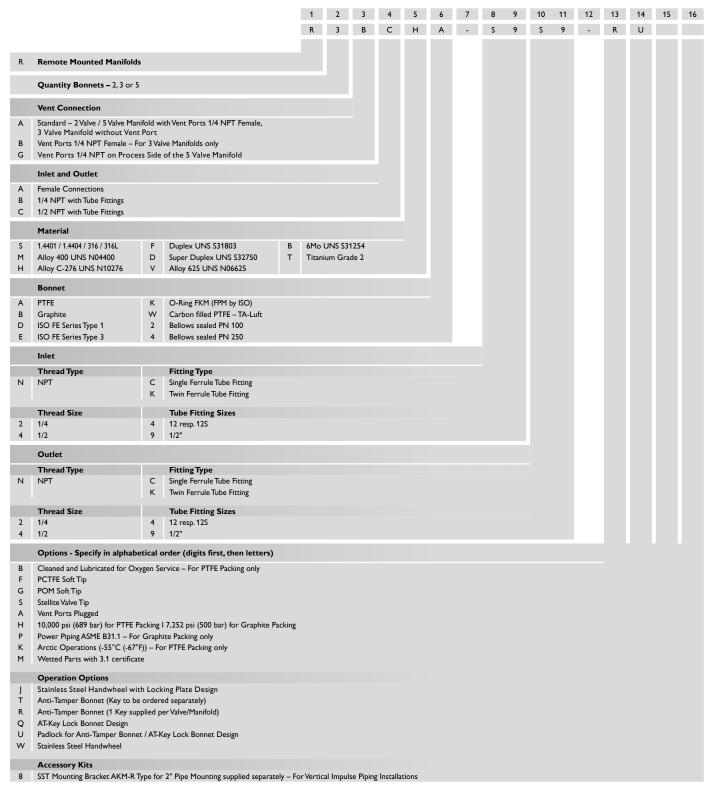






Remote Mounted Manifolds

Ordering Information



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 (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.

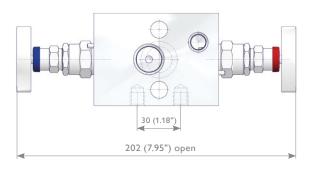
The standard type of 3 Valve Manifolds is the one without vent connection. 3 Valve Manifolds with vent connection are supplied with installed pipe plugs as standard. Integral Style 3 Valve Manifolds with Coplanar™ flange connection are provided with vent connections 1/4 NPT female as standard – plugged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

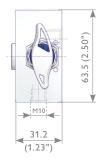
We differentiate between Wafer Style Manifolds (see Page 28-33) and Traditional Style Manifolds (see Page 34-37), the Wafer Type for the Rosemount 2051/3051 Coplanar™ Pressure Transmitter is just called Coplanar™ Style Manifold. You will find the Integral Manifolds for 2051/3051 Coplanar™ Pressure Transmitters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

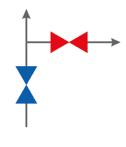
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded / Flange Interface DIN EN 61518) - if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

Wafer Style Manifolds

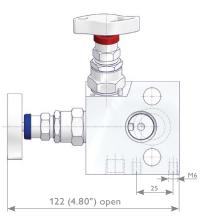
2 Valve Manifolds - Standard W2AA Type







2 Valve Manifolds - L-Shaped Bonnet Orientation W2LA Type





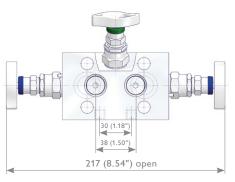




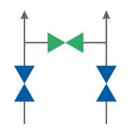


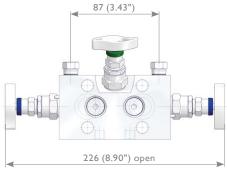
3 Valve Manifolds - Standard (Female x Flanged)

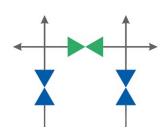
Without Vent Connection W3AA Type With Vent Connection W3BA Type





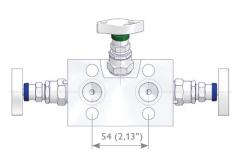




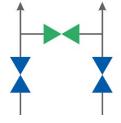


3 Valve Manifolds - Standard (Flanged x Flanged)

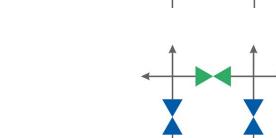
Without Vent Connection W3AB Type With Vent Connection W3BB Type









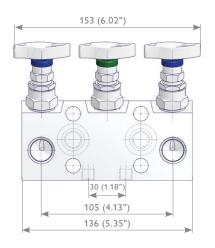




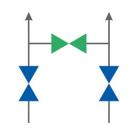


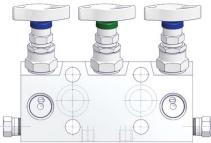
3 Valve Manifolds - Compact Design (Female x Flanged)

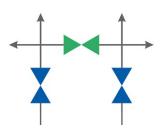
Without Vent Connection W3CA Type
With Vent Connection 1/4 NPT Female W3DA Type



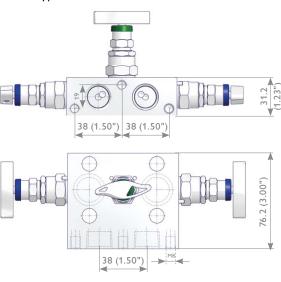


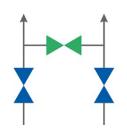






3 Valve Manifolds – Bottom Inlet Design (Female x Flanged) W3EA Type





For Bottom Inlet Design only

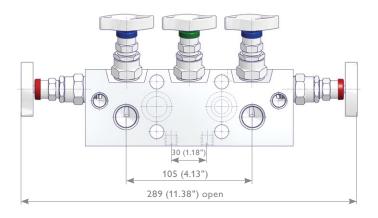


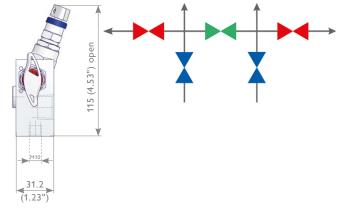


For Compact Design

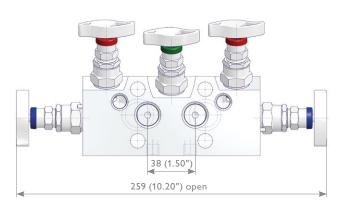


5 Valve Manifolds – Standard (Female x Flanged IEC 61518-A) W5AA Type





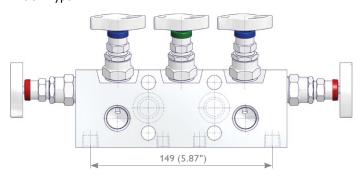
5 Valve Manifolds - Female x Flanged IEC 61518-B W5AA Type

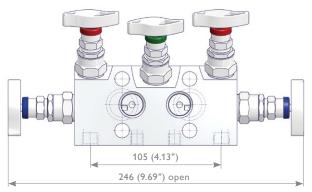




5 Valve Manifolds – Female x Flanged

Vent Ports on Bottom Face W5GA Type





Illustrated type with IEC 61518-A connection*

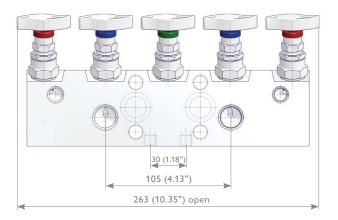
* Other dimensions same as W5AA Type

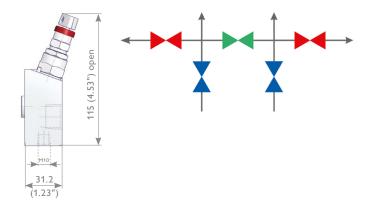
Illustrated type with IEC 61518-B connection*
Only suitable for AKM-U type Mounting Bracket



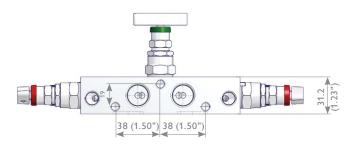


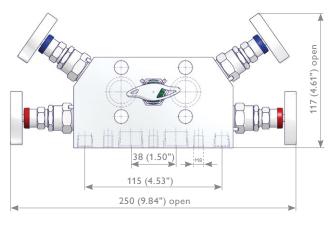
5 Valve Manifolds – Compact Design (Female x Flanged) W5CA Type





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





For Bottom Inlet Design only



For Compact Design



Ordering Information

W 2 A S B C N 4 T E C A	
Quantity Bonnets = 2-5 Manifold Specifics A Standard = 2 Valve / 5 Valve Manifold with Venr Ports 1/4 NPT Female, 3 Valve Manifold without Venr Port Wenr Ports 1/4 NPT Female Plugged = For 3 Valve Manifold with Venr Port 1/4 NPT Female, 3 Valve Manifold without Venr Port Compact Design = 3 Valve Manifold with Venr Port 1/4 NPT Female, 3 Valve Manifold without Vent Port Entrem Intel Design Venr Ports on Boccom Face of the 5 Valve Manifold Lineage Boncom Fine Design Venr Ports on Boccom Face of the 5 Valve Manifold Lineage Boncom Fine Design Material Finged 1/2 NPT with thise Fittings G1/2 with Table Fittings Material 5 1 4401 / 14/40 / 13/6 / 13/6 / F Duplex UNS 531803 B 6Mo UNS 531254 Manifold Alloy -400 UNS N04400 D Super Duplex UNS 531200 T Transium Grade 2 Alloy -62 / 276 UNS N10276 A Port E K O-Ring PKM (FPM by ISO) Bonnet Grightine W Carbon filled FFEE - TA-Luft D ISO FE Series Type 1 2 Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 ISO FE Series Type 3 A Bellows scaled PN 100 Iso FE Series Type 3 A Bellows scaled PN 100 Iso FE Series Type 3 A Bellows scaled PN 100 D ISO FE Series Type 3 A Bellows scaled PN 100 D ISO FE Series Type 3 A Bellows scaled PN 100 BORD FIRST STANDARD A BENEFIT STANDARD	
Manifold Specifics A Standard – 2 Valve / 5 Valve Manifold with Vent Ports 114 NPT Female, 3 Valve Manifold without Vent Port Vent Ports 114 NPT Female Progres – For 3 Valve Manifold with Vent Ports 114 NPT Female, 3 Valve Manifold without Vent Port Compact Design – 3 Valve Manifold with Vent Port 114 NPT Female Bottom Inited Design Vent Ports on Bottom Face of the 5 Valve Manifold L.Shaped Bonnet Orientation Inlet A Female B Flanged 112 NPT with Tube Fittings G112 with Defettings Material S 1,4401 /1,4404 /136 /1316. F Duplex UNS \$1803 G112 with Defettings Malloy 400 UNS NO MHO0 D Super Duplex UNS \$12503 B Graphite A IPTE K O-Ring RCM (FPM by ISO) B Graphite W Carbon filled PTFE — TA-Lust D ISO FE Series Type 1 2 Bellows scaled PN 100 ISO FE Series Type 3 4 Bellows scaled PN 100 ISO FE Series Type 2 Inlet Thread Type Fitting Type Thread Type Thread Type Thread Size The Fitting Type C Single Ferrule Tube Fitting Thread Size The Fitting Type Thread Size Flange Interface Thread Size Flange Interface D IN EN 45158-A D IN EN 45158-A D IN EN 45158-A D IN EN 45158-A Cleaned and Lubricated for Oxygen Service – For PTFE Packing only Vent Ports Rugged ²¹ Vent Ports Rugged ²² Vent Ports Rugged ²¹ Vent Ports Rugged ²² Vent Ports Rugged ²¹ Vent Ports Rugged ²² Vent Ports Rugged ²² Vent Ports Rugged ²³ Vent Ports Rugged ²³ B Fitting Rugged ²⁴ Vent Ports Rugged ²⁴ Vent Ports Rugged ²⁴ Vent Ports Rugged ²⁴ Vent Ports Rugged ²⁴ Prove Ports Rugged ²⁴ Prove P	
Standard — 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Female, 3 Valve Manifold without Vent Port Vent Ports 1/4 NPT Female Rugged – For 3 Valve Manifold sonly** Compact Design — 3 Valve Manifold with Vent Fort 1/4 NPT Female Bottom Inicot Design Vent Ports on Bottom Face of the 5 Valve Manifold L'Shaped Bonnet Orientation Inict L'Shaped Bonnet Orientation Inict Single Female Fininged 1/2 NPT with Tube Fittings G1/2 with Dive Fittings G1/2 with Dive Fittings G1/2 with Dive Fittings G1/2 with Dive Fittings Material Single Fitting Vent S31803 Alloy 400 URS S31803 B GMb UNS S31254 T Titanium Grade 2 Alloy 600 URS N04400 D Super Duplex UNS S32750 T Titanium Grade 2 Bonnet Nover Care Unit Nover Salve	
Standard – 2 Valve / 5 Valve Manifold with Vent Ports 1/4 NPT Fenale, 3 Valve Manifold without Vent Port Vent Ports 1/4 NPT Fenale Rugged – For 3 Valve Manifold sonly** Compact Design – 3 Valve Manifold with Vent Port 1/4 NPT Fenale Bottom Intel Design Vent Ports on Bottom Face of the 5 Valve Manifold Lishaped Bonnet Orientation Inlet Lishaped Bonnet Orientation Inlet Shaped Bonnet Orientation Inlet A Fenale Finale Finale G1/2 with Des Fictings Material Index A Jernale Shaped Orientation Inlet Material Index A Jernale Shaped Orientation Inlet Inlet Inlet Inl	
Compact Design – S Valve Manifold with Vent Port 1/4 NPT Female Octompact Design – 3 Valve Manifold with Vent Port 1/4 NPT Female Bottom Intel Design Vent Ports on Bottom Face of the 5 Valve Manifold Lishaped Bonnet Orientation Inlet Female Finage 1/2 NPT with Tube Fittings G1/2 with Tube Fittings Material 1/2 NPT with Tube Fittings G1/2 with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fittings Material 1/2 NPT with Tube Fitting Type	
D Compact Design - 3 Valve Manifold with Vent Port 1/4 NPT Female Bottom Inlet Design Vent Ports on Bottom Face of the 5 Valve Manifold L-Shaped Bonnet Orientation Inlet Female Finaged 1/2 NPT with Tube Fittings G1/2 with Tube Fittings Bonnet N PTE	
Bottom Inlet Design	
L-Shaped Bonnet Orientation	
Inlet Female Flanged Flanged 1/2 NPT with Tube Fittings G 1/2 with Tube Fittings G 1/2 with Tube Fittings Material 1.40P1 /1.40P4 /316 / 316 L Alloy 400 LNS N04400 Alloy 400 LNS N04400 Alloy 625 LNS N06255 T Alloy 627 LNS N10276 Alloy 627 LNS N10276 V Alloy 625 LNS N06255 T Trianium Grade 2 Alloy 627 LNS N10276 V Carbon filled PTFE - TA-Luft 1SO FE Series Type 1 ISO FE Series Type 3 Bellows sealed PN 100 ISO FE Series Type 3 Inlet Thread Type NPT C Single Ferrule Tube Fitting Type She Parallel (G) - DIN 3852 K Twin Ferrule Tube Fitting There Size Tube Fitting Sizes Flange Interface NPT 1/2 S 14 resp. 145 9 1/2" Dutlet Transmitter Interface Din R N 61518-A Din R N 61518-A Din R N 61518-A Cleaned and Lubricated for Oxygen Service - For PTFE Packing only PCTFE Soft Tip POM Soft Tip Vant Ports Plugged* Power Piping ASME B31.1 - For Graphite Packing only PCTFE Soft Tip POM Soft Tip Vant Ports Plugged* Power Piping ASME B31.1 - For Graphite Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only Parts Cofferon (S5°C (6°FF)) - For PTFE Packing only	
Female Finged Finged 1/2 NPT with Tube Fittings Material 1.4401/1.4404/316/316L	
Flanged 1/2 NPT with Tube Fittings G1/2 with Tube Fittings	
Material Foundation	
Material	
1.440 / 1316 / 316 F	
Alloy 400 UNS N04400 D Super Duplex UNS \$32750 T Alloy 625 UNS N06625 Bonnet PTFE K O-Ring FKM (FPM by ISO) Graphite W Carbon filled PTFE - TA-Luft DI ISO FE Series Type 1 2 Bellows sealed PN 100 BISO FE Series Type 3 4 Bellows sealed PN 250 Inlet Thread Type Fitting Type I SP Parallel (G) – DIN 3852 K Twin Ferrule Tube Fitting BSP Parallel (G) – DIN 3852 K Twin Ferrule Tube Fitting Thread Size Tube Fitting Sizes Flange Interface 1 1/4 4 12 resp. 12S 4 EN 61518 without 1/4 NPT 1/2 5 14 resp. 14S 9 1/2" Outlet Transmitter Interface DIN EN 61518-A E DIN EN 61518-A DIN EN 61518-B Options - Specify in alphabetical order (digits first, then letters) Cleaned and Lubricated for Oxygen Service – For PTFE Packing only POM Soft Tip Sellite Valve Tip Sellite Valve Tip Power Piping ASNE B311 – For Graphite Packing only Power Piping ASNE B311 – For Graphite Packing only Arctic Operations (-55°C (-67°F)) – For PTFE Packing only	
Bonnet A PTFE	
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Power Piping ASME B31.1 – For Graphite Packing only Arctic Operations (-55°C (-67°F)) – For PTFE Packing only	
1 Wetted Parts with 3.1 certificate	
Operation Options Stainless Steel Handwheel with Locking Plate Design	
Stainless Steel Handwheel with Locking Plate Design Anti-Tamper Bonnet (Key to be ordered separately)	
Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold) AT-Key Lock Bonnet Design	
2 AT-Key Lock Bonnet Design J Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design	
Stainless Steel Handwheel	
Standard Accessory Kits for Manifold to Transmitter mounting according to DIN EN 61518 / IEC 61518*4	
Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", C.S., PTFE Seal Rings Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", Bolt Material S.S. = 316 Stainless Steel I ASTM A193 B8M Class 2, PTFE Seal Rings	
Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", C.S., Graphite Seal Rings	
Hex Cap Screw 7/16-20 UNF, Bolt Length 1 3/4", Bolt Material S.S. = 316 Stainless Steel I ASTM A193 B8M Class 2, Graphite Seal Rings	
Mounting Bracket Kits CST Mounting Product AKM D Type for 2" Disc Mounting supplied accounted. For Versical Japanica Product Residence (1) 8	
CST Mounting Bracket AKM-D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations**1*3 SST Mounting Bracket AKM-B, or -D Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations**1*3	

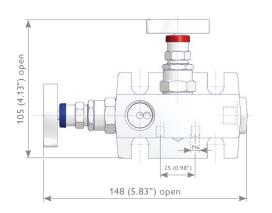
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2. Note: Not every configuration which can be created in the ordering information is feasible / available.

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

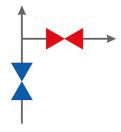
Direct Mount Manifolds - Traditional Style

Traditional Style Manifolds

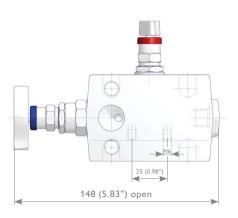
2 Valve Manifolds - Female x Flanged T2A Type

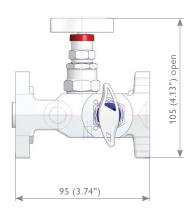






2 Valve Manifolds - Flanged x Flanged Н2А Туре



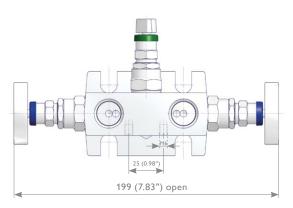


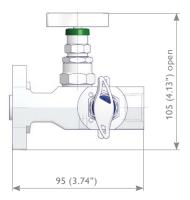


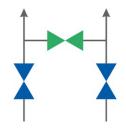
Direct Mount Manifolds - Traditional Style

3 Valve Manifolds - Without Vent Connection

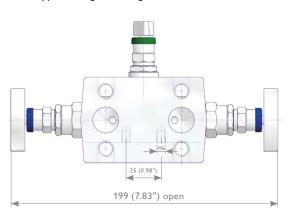
T3A Type - Female x Flanged

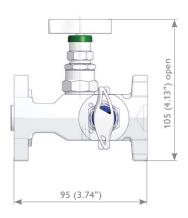






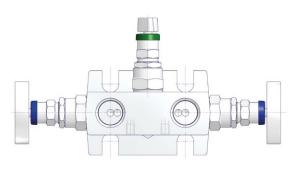
H3A Type – Flanged x Flanged

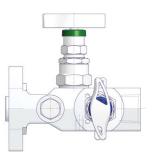


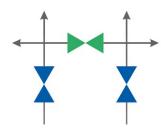


3 Valve Manifolds - With Vent Connection

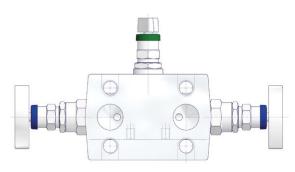
T3B Type – Female x Flanged

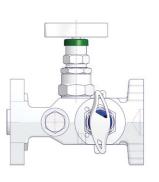






H3B Type – Flanged x Flanged

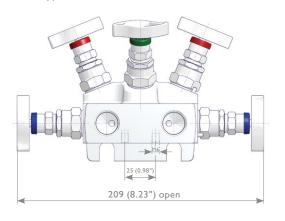


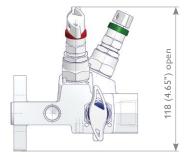


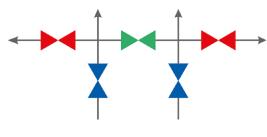


Direct Mount Manifolds - Traditional Style

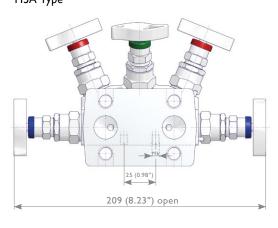
5 Valve Manifolds – Female x Flanged T5A Type

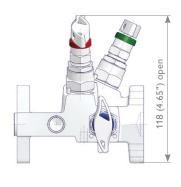






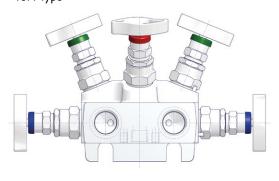
5 Valve Manifolds – Flanged x Flanged H5A Type

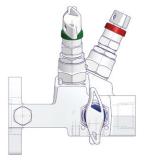


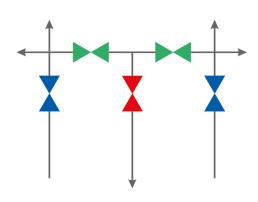


5 Valve Manifolds with Natural Gas Metering Pattern

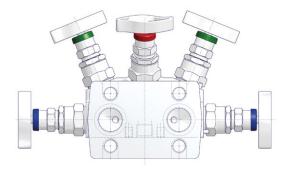
T5N Type

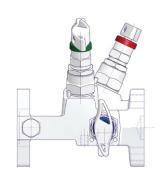






H5N Type







Direct Mount Manifolds - Traditional Style

Ordering Information

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 / 15 Vehior Manifold with Venir Ports 1/4 NPT Female, 3 Valve Manifold without Venir Port B Venir Ports 1/4 NPT Female Plugged - For 3 Valve Manifolds only Natural Case Matering Pattern - For's Valve Manifolds only Inlet Inlet Material A Female - For T-Style Manifolds only Brianged - For H-Style Manifolds only Brianged - For H-Style Manifolds only Material A Female - For H-Style Manifolds only Material A Pemale - For H-Style Manifolds only Material Bandow - Walloy 4252 UNS N06623 Bonnet Bonnet Transimiter No Pemale Plugged - For Manifolds Plug Plug Plug Plug Bellows sealed PN 100 Bellows sealed PN 250 Inlet Thread Type Fitting Type Flange Interface Thread Type Thread Ty						1	2	2	1	c	4	7	0	٥	10	11	12	12	1.1	15	14
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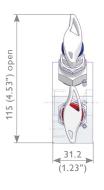
 ^{*}¹ Relevant Bracket Type see Pages 34-36.
 *² For H3B/T3B Types Option A is not relevant because it's already included.
 *³ Bolt Material S.S. = 316 Stainless Steel I ASTM A193 B8M Class 2

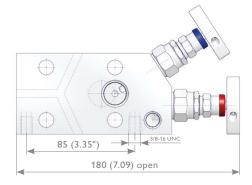
Direct Mount Manifolds - Integral Style

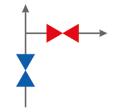
Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters

Coplanar[™] Style Manifolds

2 Valve Integral Manifolds W2RA Type



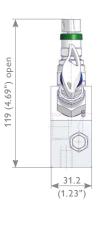


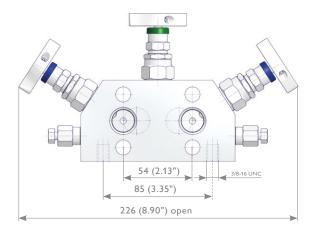


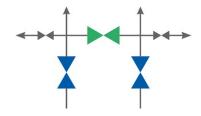
3 Valve Integral Manifolds

W3RA Type

Supplied as standard with vent valves - fitted

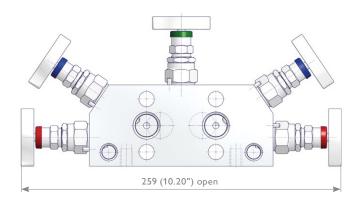


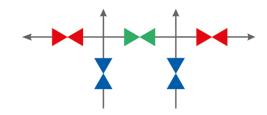




5 Valve Integral Manifolds W5RA Type









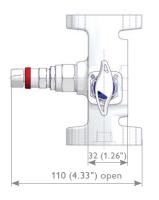
Direct Mount Manifolds - Integral Style

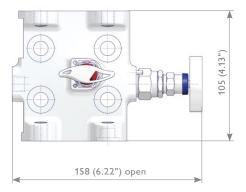
Traditional Style Integral Manifolds

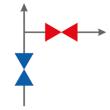
Inlet with Flange Interface DIN EN 61518 / IEC 61518 and 1/4 NPT female only.

2 Valve Integral Manifolds

H2TB Type





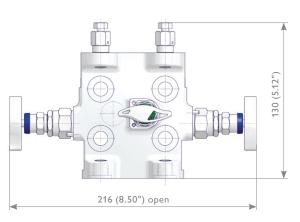


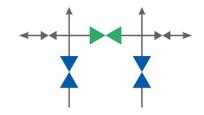
3 Valve Integral Manifolds

H3TB Type

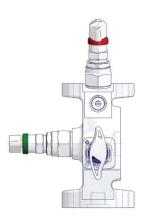
Supplied as standard with vent valves – fitted

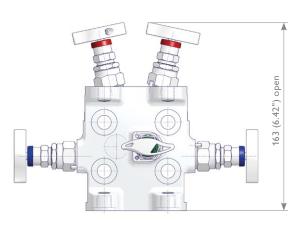


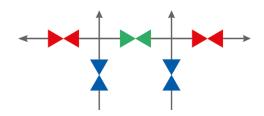




5 Valve Integral Manifolds H5TB Type









Direct Mount Manifolds - Integral Style

Ordering Information

1																					
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8 SST Mounting Bracket AKM-C Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations*		Mounting Bracket Kits																			
	9	•																			

^{*} Relevant Bracket Type see Pages 38-39.

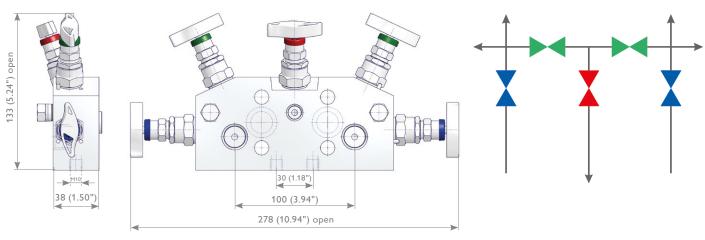
5 Valve Manifolds with Natural Gas Metering Pattern

5 Valve Manifolds with Natural Gas Metering Pattern

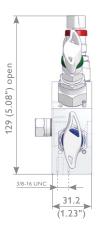
AS-Schneider is manufacturing various 5 Valve Manifold Designs with Natural Gas Metering Pattern for direct mounting to Differential Pressure Transmitters – either Transmitters with standard flange connection in accordance with IEC 61518 or alternatively to Rosemount 2051/3051 Coplanar™ Pressure Transmitters.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

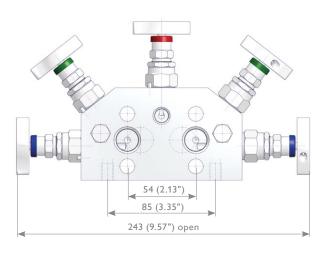
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) - if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

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



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

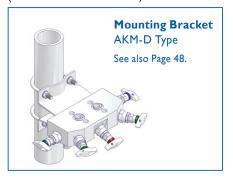




Manifold Type D (For Rosemount Coplanar™ Transmitter)



Manifold Type A (DIN EN 61518 / IEC 61518)



5 Valve Manifolds with Natural Gas Metering Pattern

Ordering Information

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			5	A	A	T	S	К	_	C	4	A	D		A	F	M	10
										_								
5	5 Valve Manifolds with Natural Gas Metering Pattern																	
	-																	
^	Manifold Type	I/A NIDT	Inlas 1/	2 NIDT														
A D	Outlet DIN EN 61518-A – Test Connection 1/4 NPT - Vent Port Outlet for Rosemount 2051/3051 Coplanar TM Pressure Transmitte NPT – Vent Port 1/4 NPT – Inlet 1/2 NPT																	
	Vent Connection																	
A C	1/4 NPT Female E 1/4 NPT with Single Ferm 1/4 NPT with Twin Ferrule Tube Fitting 12 mm	ile Tube Fi	tting 12	S														
	Inlet																	
F T	Female Tube Fitting																	
	Material																	
S	1.4401 / 1.4404 / 316 / 316L F Duplex UNS S31803	В		UNS S														
M H	Alloy 400 UNS N04400 D Super Duplex UNS S327! Alloy C-276 UNS N10276 V Alloy 625 UNS N06625	0 T	Titai	nium Gr	ade 2													
	Bonnet																	
A B	PTFE K O-Ring FKM (FPM by ISO) Graphite W Carbon filled PTFE – TA-I																	
D	ISO FE Series Type 1 2 Bellows sealed PN 100	·uic																
E	ISO FE Series Type 3 4 Bellows sealed PN 250																	
	Inlet																	
N4	Thread Size Fitting Type NPT C Single Ferrule Tube Fitting	4		e Fittir esp. 12S	ng Sizes	3												
	K Twin Ferrule Tube Fitting	·		сор. 120														
	Test Connection																	
Α	1/4 NPT Female plugged																	
	Outlet																	
	Transmitter Interface																	
D F	DIN EN 61518-A Rosemount 2051/3051 Coplanar™ Pressure Transmitter																	
	Options - Specify in alphabetical order (digits first, then	letters)																
В	Cleaned and Lubricated for Oxygen Service –For PTFE Packing	only																
F G	PCTFE Soft Tip POM Soft Tip																	
S	Stellite Valve Tip																	
A	Vent Ports Plugged																	
P K	Power Piping ASME B31.1 – For Graphite Packing only 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 R	Anti-Tamper Bonnet (Key to be ordered separately) Anti-Tamper Bonnet (1 Key supplied per Valve/Manifold)																	
Q	AT-Key Lock Bonnet Design																	
U W	Padlock for Anti-Tamper Bonnet / AT-Key Lock Bonnet Design Stainless Steel Handwheel																	
	Accessory Kits for Manifold to Transmitter mounting a	cording	to DIN	I EN 61	1518 - F	or 5AT	ype onl	y (not	for 5DT	уре)								
1	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., PTFE Seal R	ings																
2	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", S.S., PTFE Seal Ri Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., Graphite Se	-																
4	Hex Cap Screw 7/16-20 UNF, Bolt Length 2", C.S., Graphite Ser																	
	Mounting Bracket Kits																	
7 8	CST Mounting Bracket AKM-C or -D Type for 2" Pipe Mounting Bracket AKM-C or -D Type for 2" Pipe Mounting									ons								

^{*} Bolt Material S.S. = 316 Stainless Steel I ASTM A193 B8M Class 2

Enclosure Manifolds EDM Series

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.

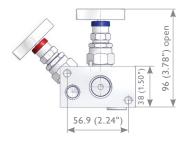
2 Valve Manifolds

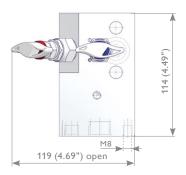
Transmitter Connection

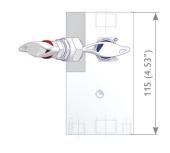
Acc. to DIN EN 61518 E2AA Type

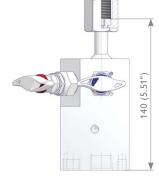
1/2 NPT Female E2AC Type

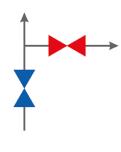
Swivel Nut E2AE Type



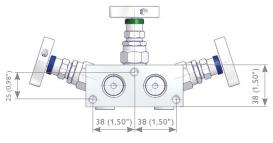


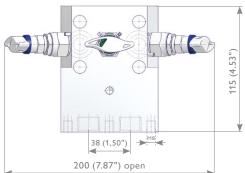


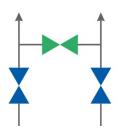




3 Valve Manifolds - Female x Flanged E3AA Type



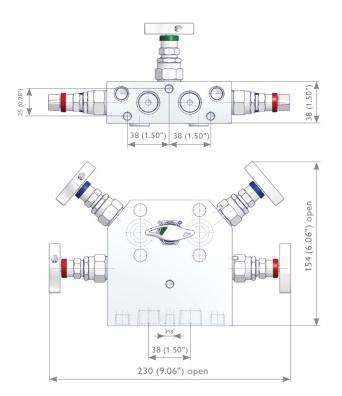


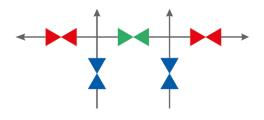


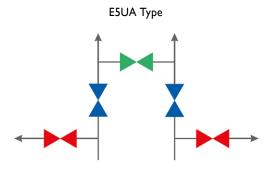
Enclosure Manifolds EDM Series

5 Valve Manifolds - Female x Flanged

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



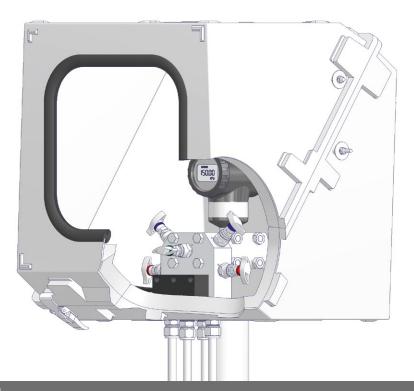




Enclosure Systems

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



Enclosure Manifolds EDM Series

Ordering Information

							_												
				1	1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				i	E 5	Α	Α	S	Α	-	N	4	Т	D	-	R			
-																			
E	Enclosure Manifolds EDM	Series	•																
	Quantity Bonnets - 2-5																		
	Manifold Specifics																		
Α			th Vent Ports 1/4 NPT Female, 3 Valv	e Manifold	d without V	ent Port													
C U	Vent 1/4 NPT with Tube Fitting Upstream Vent Type (5 Valve M	-																	
			1 (11)																
Α	Inlet x Outlet Configuration Female x Flanged	D	1/2 NPT with Tube Fitting x Fer	male															
В	1/2 NPT with Tube Fitting x	E	Female x Swivel Nut	naic															
С	Flanged Female × Female	F	1/2 NPT with Tube Fitting x Sw	ivel Nut															
	Material																		
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	B 6	Mo UNS S	21254													
M	Alloy 400 UNS N04400	D	Super Duplex UNS S32750		itanium Gr														
Н	Alloy C-276 UNS N10276	٧	Alloy 625 UNS N06625																
	Bonnet																		
Α	PTFE	K	O-Ring FKM (FPM by ISO)																
B D	Graphite	W 2	Carbon filled PTFE – TA-Luft Bellows sealed PN 100																
E	ISO FE Series Type 1 ISO FE Series Type 3	4	Bellows sealed PN 250																
	Inlet																		
	Thread Type		Fitting Type																
N	NPT	С	Single Ferrule Tube Fitting																
		K	Twin Ferrule Tube Fitting																
2	Thread Size	4	Tube Fitting Sizes																
2 4	1/2	5	12 resp. 12S 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	M20x1.5 Swivel Nut	TF	Rosemount 2051/3051 Coplanar ^{TI}	^m Pressure	e Transmitt	er													
	Options - Specify in alphabletters)	oetical	order (digits first, then																
В		xygen S	Service – For PTFE Packing only																
F G	PCTFE Soft Tip POM Soft Tip																		
S	Stellite Valve Tip																		
A	Vent Ports Plugged	_	15. 5. 15. 1																
P K	Power Piping ASME B31.1 – For Arctic Operations (-55°C (-67°		• ,																
М	Wetted Parts with 3.1 certific																		
	Operation Options																		
J	Stainless Steel Handwheel w		•																
T R	Anti-Tamper Bonnet (Key to b Anti-Tamper Bonnet (1 Key su																		
Q	AT-Key Lock Bonnet Design		F · · · · · · · · · · · · · · · · · ·																
U	Padlock for Anti-Tamper Bonn	net / AT-	-Key Lock Bonnet Design																
W	Standard Accessory Kits for	or Man	nifold to Transmitter mountin	a accord	ding to Di	IN FN 4	1519 / 1	FC 415	18										
1	Hex Cap Screw 7/16-20 UNF,			8 accord	anig to Di	EIN 0	.1510/1	013											
2	Hex Cap Screw 7/16-20 UNF,		•																
3 4	· ·		ength 2", C.S., Graphite Seal Rings ength 2", S.S., Graphite Seal Rings*																
	Material S S = 316 Stainless Stee		-																

^{*} Bolt Material S.S. = 316 Stainless Steel I ASTM A193 B8M Class 2

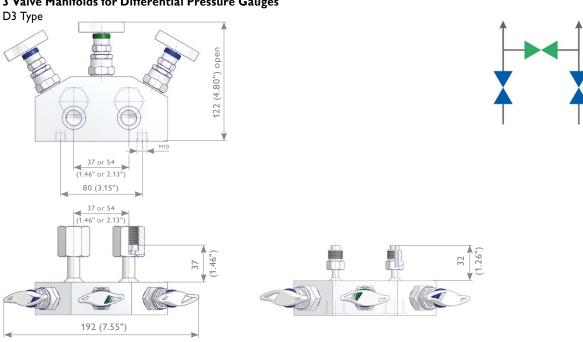
3 and 5 Valve Manifolds for Differential Pressure Gauges

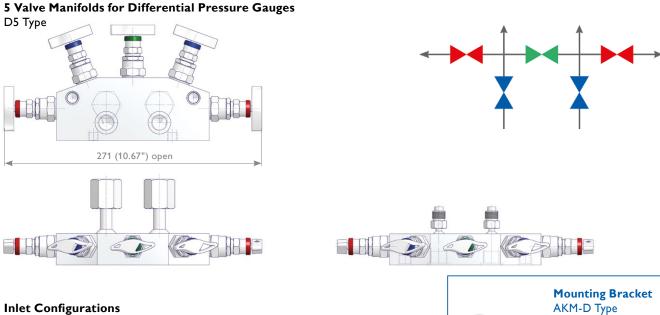
Differential Pressure Gauge Manifolds

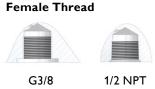
AS-Schneider Manifolds for Differential Pressure Gauges are available with a center to center distance of 37 mm or 54 mm as standard. The instrument connections are supplied with a Swivel Nut or a Swivel Male Connection. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as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

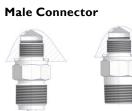
The dimensions shown apply only to the illustrated valves (G 3/8 Threaded) - if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

3 Valve Manifolds for Differential Pressure Gauges

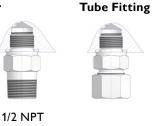








G1/2





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	В	В	S	Α	-	Н	3	G	2	-	8	M		
D	Differential Pressure Gauge	Mani	folds																
	Quantity Bonnets – 3 or 5																		
	Manifold Specifics																		
	Thread Size Inlet x Distance	from C		tial Pr	ressure (Gauge													
A	G 3/8 x 37 mm	С	1/2 NPT x 37 mm																
В	G 3/8 x 54 mm	D	1/2 NPT x 54 mm																
	Inlet x Outlet Configuration	1																	
Α	Female x Swivel Nut	D	Tube Fitting x Swivel Male																
В	Female x Swivel Male	E	Male Connector x Swivel Nut																
С	Tube Fitting x Swivel Nut	F	Male Connector x Swivel Male	е															
	Material																		
S	1.4401 / 1.4404 / 316 / 316L	F D	Duplex UNS S31803	B T		JNS S31													
M H	Alloy 400 UNS N04400 Alloy C-276 UNS N10276	٧	Super Duplex UNS S32750 Alloy 625 UNS N06625	'	Hann	um Grac	ie z												
		•	7 1110/ 023 01 10 1100023																
Α	Bonnet PTFE	K	O-Ring FKM (FPM by ISO)																
В	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 res														
H3 G4	G 3/8 – DIN 3852 (Female only) G 1/2 – EN 837-1 (Male only)	K	Twin Ferrule Tube Fitting	5 9	14 res	p. 145													
	Outlet																		
	Thread Type																		
G2	G 1/4 Swivel Male																		
G4	G 1/2 Swivel Nut or Swivel Male	е																	
M4	M 20 x 1.5 Swivel Nut																		
	Options - Specify in alphabe			rs)															
B F	Cleaned and Lubricated for Oxy PCTFE Soft Tip	ygen Se	ervice – For PTFE Packing only																
G	POM Soft Tip																		
S	Stellite Valve Tip																		
Α	Vent Ports Plugged																		
H P	10,000 psi (689 bar) for PTFE P Power Piping ASME B31.1 – For			te Pac	king														
K	Arctic Operations (-55°C (-67°F		~ /																
М	Wetted Parts with 3.1 certificat		6 /																
	Operation Options																		
J	Stainless Steel Handwheel wit		•																
T R	Anti-Tamper Bonnet (Key to be Anti-Tamper Bonnet (1 Key sup		* **																
Q	AT-Key Lock Bonnet Design	pcu p	er variori iaimoraj																
Ū	Padlock for Anti-Tamper Bonne	t / AT-k	Key Lock Bonnet Design																
W	Stainless Steel Handwheel																		
_	Accessory Kits		211 D: 14			, , , ,													
7 8	CST Mounting Bracket AKM-D SST Mounting Bracket AKM-D																		

Accessories - Mounting Bracket Kits

Mounting Bracket Kits for Vertical Impulse Piping Installations

AKM-S Type

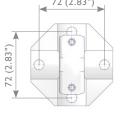
For Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S)

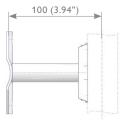


AKM-R Type

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



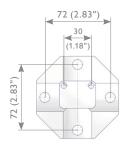


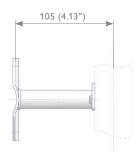


AKM-G Type

For Double Block & Bleed Manifolds (Type C)





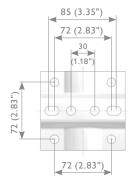


AKM-D Type and AKM-C Type

For Manifolds Type D, W and 5

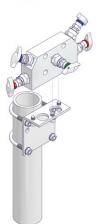


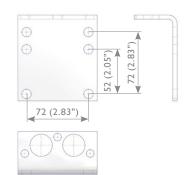




AKM-B Type

For Wafer Style Manifolds with Bottom Inlet Design





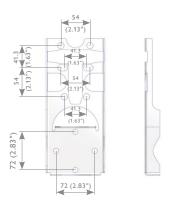
Accessories - Mounting Bracket Kits

Mounting Bracket Kits for Horizontal Impulse Piping Installations

AKM-T Type

For Integral Manifolds - Traditional Style



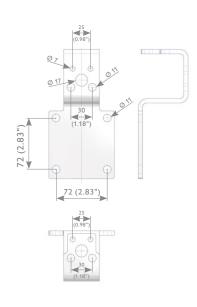


Mounting Bracket Kits for Horizontal and Vertical Impulse Piping Installations

AKM-U Type

For Manifolds Type H, W and T





Ordering Information

		1	2	3	4	5	6	7	8	9				
		Α	K	М	-	S	Р	S	-					
AKM	Mounting Bracket Kits													
	Mounting Bracket incl. screws for mounting the br (if applicable)	acket	to the	mani	fold									
S	Valves and Manifolds with 1 1/4" Square Valve Body (Type	H, G, M	1 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													
В	Wafer Style Manifolds with Bottom Inlet Design													
U	Manifolds Type H (not for Integral Manifolds for Rosemour Transmitters)	it 2051/	3051 C	oplanar	™ Pressu	ıre								
	Manifolds Type W (except Bottom Inlet Design) Manifolds Type T													
С	Integral Manifolds - Coplanar™ Style													
T	Integral Manifolds - Traditional Style													
	Mounting Method													
Р	2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers													
	Material													
C S	Carbon Steel zinc plated (only available Mounting Bracket 316 Stainless Steel	Kit AK	M-D a	nd AKN	M-C)									
Н	Mandatory for Manifolds Type H and U-Type Bracket (incl	. Spacer	-)											

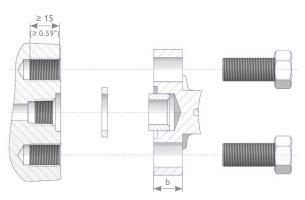
Mounting Bracket Kit

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
- $\ensuremath{^{*}}\xspace$ Amount depending on bracket type. See illustrations.

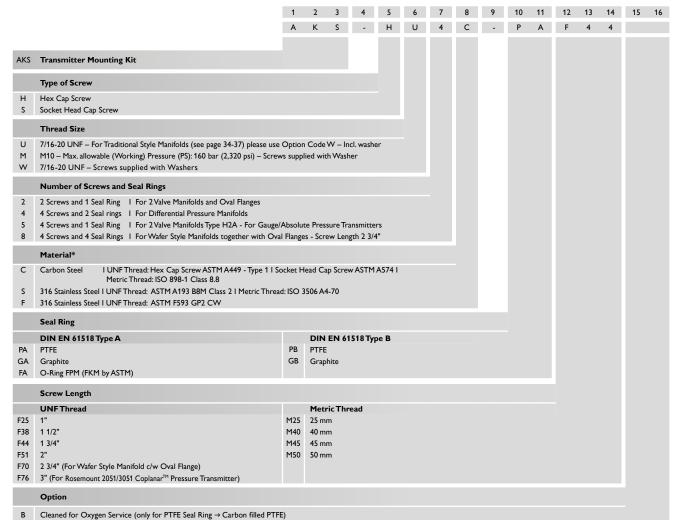
Accessories - Manifold to Transmitter Mounting acc. to DIN EN 61518

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



b = Depending on manifold thickness

Ordering Information

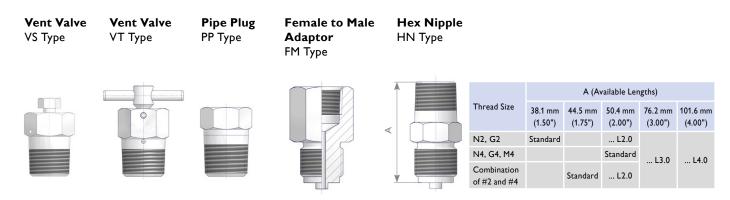




* IEC 61518 calls for the mentioned mechanical properties (for example B8 Class 2) because the flange connection is designed for high pressure service (up to 6,000 psi) and high temperature service. The usage of screws without the defined mechanical properties is critical and may lead to a sudden component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

Accessories - Pipe Plugs, Vent Valves, Adaptors

Vent Valves, Pipe Plugs and Pipe Fittings



Ordering Information - Pipe Plugs and Vent Valves

						1	2	3	4	5	6	7	8	9	10
						٧	S	М	S	-	Ν	4	-	М	
PP VS VT	Pipe Plug Vent Valve with Bleed Scr Vent Valve with T Handle														
	Connection														
М	Male														
	Material														
S M H	1.4401 / 1.4404 / 316 / 316L Alloy 400 UNS N04400 Alloy C-276 UNS N10276	F D V	Duplex UNS S31803 Super Duplex UNS S32750 Alloy 625 UNS N06625	B T	6Mo UNS S31254 Titanium Grade 2										
	Threaded Connection														
N2 N3 N4	1/4 NPT 3/8 NPT 1/2 NPT														
	Options - Specify in alphab	etical o	order (digits first, then letters))											
B M	Cleaned for Oxygen Service	to – No	ot 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

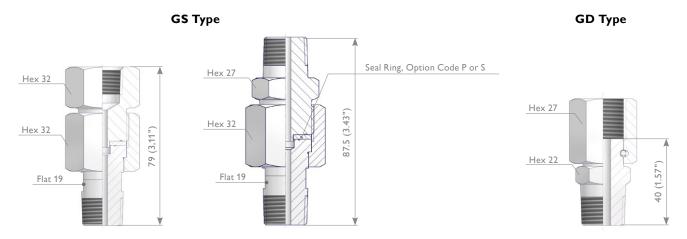
						1	2	3	4	5	6	7	8	9	10	11 - 16
						F	М	S	-	М	4	Ν	4	-	В	
FM	Female to Male Adaptor															
HN	•	be spe	cified in alphabetical resp. ascendi	ng orde	er.											
			N4 (and not HNS-N4G4) resp. HN													
	Material															
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	В	6Mo UNS S31254											
М	Alloy 400 UNS N04400	D	Super Duplex UNS S32750	Т	Titanium Grade 2											
Н	Alloy C-276 UNS N10276	٧	Alloy 625 UNS N06625													
	Inlet - FM Type Female Thre	ead														
	Thread Type		Inch Size		Metric Size											
Ν	NPT	2	1/4	4	M 20 x 1.5											
G	BSP Parallel (G) – EN 837-1	4	1/2													
М	Metric similar to EN 837-1															
	Outlet															
	Thread Type		Inch Size		Metric Size											
Ν	NPT	2	1/4	4	M20×1.5											
G	BSP Parallel (G) – EN 837-1	4	1/2													
М	Metric similar to EN 837-1															
	Options - Specify in alphabe	etical (order (digits first, then letters)												
В	Cleaned for Oxygen Service															
L#.0	# → Available Lengths see table	above	- For Hex Nipples only													

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

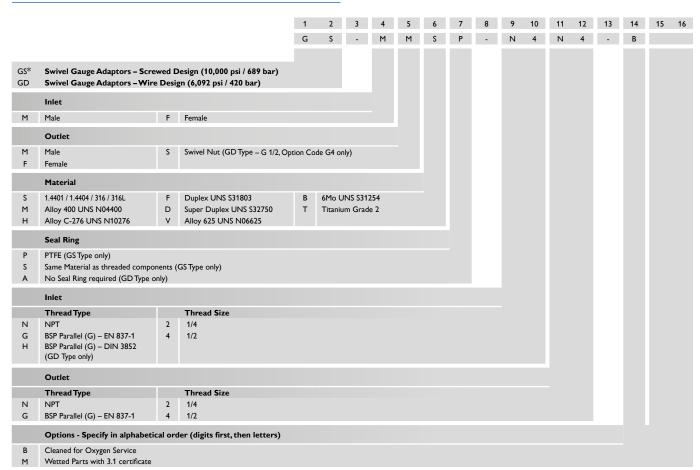
Accessories - Swivel Gauge Adaptors

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.



Ordering Information - Swivel Gauge Adaptors



 $[\]ensuremath{^{*}}$ GS Type only: NPT Threaded Options as standard.

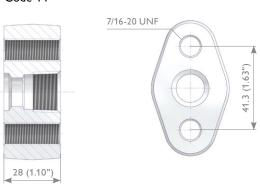
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

Accessories - Oval Flanges, Anti-Tamper Key

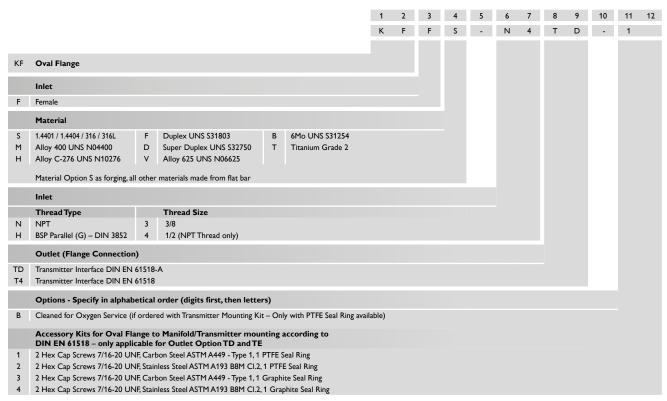
Oval Flanges KF Type

Transmitter Interface EN 61518-A Code TD

Transmitter Interface EN 61518 Code T4



Ordering Information - Oval Flange (Kidney Flange, Futbol)



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

Anti-Tamper Key ATK Type

ATK-ES Type



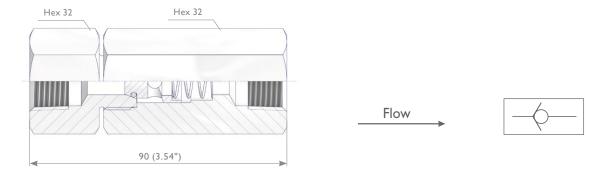
Check Valves

Check Valves CV Type

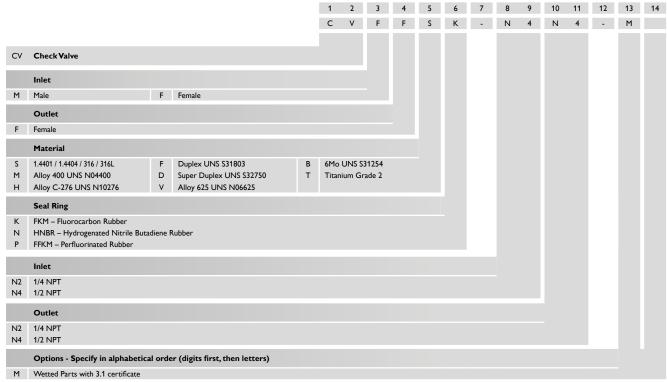
AS-Schneider Check Valves (Non-Return Valves) are designed for a cold (Working) Pressure rating of 10,000 psi (689 bar). The Check Valve allows flow in one direction only, closing when flow reverses. Should you still not find your option please contact the factory.

Features

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



Ordering Information - Check Valves



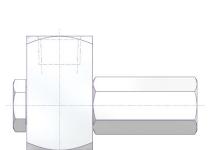
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2. Note: Check Valves which are not actuated for a period of time may initially crack at a higher pressure than above stated.

Complementary Products

Complementary Products

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

Gauge Protectors



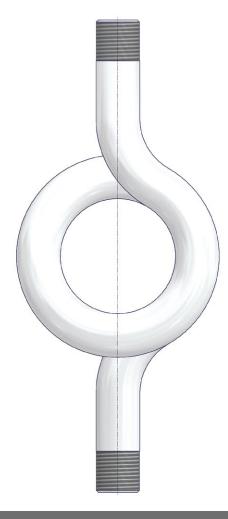
Gauge Snubbers



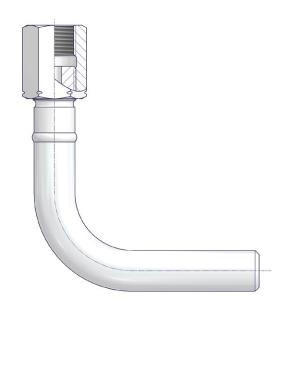
Compact Syphons



Coil Type Syphons / Pigtail Syphons



Elbows



Technical Service Portal - Digital Valve Plate

Digital Valve Plate for Valves and Manifolds

The E Series Valves and Manifolds manufactured by the AS-Schneider Group are now marked with an unique QR-code. That QR-code provides easy access to static product information like material properties, certificates and physical dimensions via CAD drawings. It also includes operating and installation instructions or spare parts or replacement information.

Product Details

Operating Instructions

Individual Drawings

Spare Part Service

Technical Support





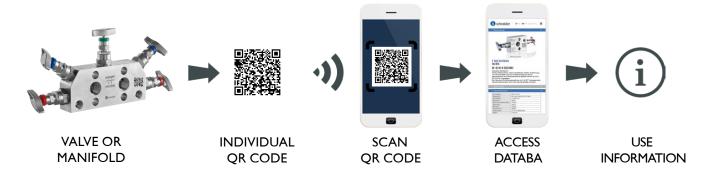






How it works

If you have an AS-Schneider valve or manifold with QR-code in your hand or installed in your plant, you can now access the product information very easy. The access is straightforward:



Maintenance Benefits

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

Clear planning

More straightforward planning and installation via the mechanical properties of the product.

Error-free assembly

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

Easy and fast maintenance

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

Link to asset management tool

Operators link this information into their respective asset and operation management system.

Environmental friendly

The environmentally responsible disassembly and disposal.

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



YOUR GLOBAL PARTNER

for Instrumentation and Double Block & Bleed Valves



Visit us on:







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