

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



Lock Pin

Eliminates unauthorized removal of the bonnet assembly.

Bonnet

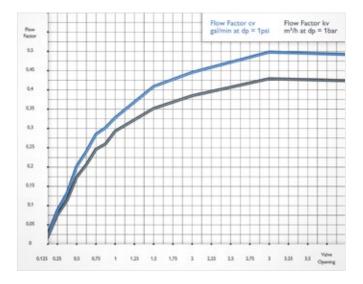
Metal to Metal Seal to Valve Body.

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



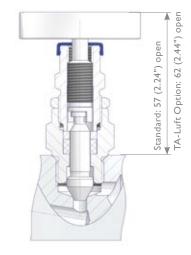
Standard Needle Valves

Screwed Bonnet - Stem Seal: Packing

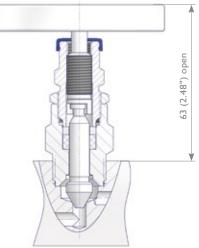
Features

- 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.

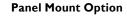
Color Coded Options

Graphite Packing

Oxygen Service









思	
	A_
Stainless	

Components	Stainless Steel				Exotic Alloys									
Components	Material / Material No.													
Body														
Bonnet	244 / 2441	A.II. 400	AU C 27/	5 .	LINIC 022750	A.U. (25	414	T :						
Needle	316 / 316L	Alloy 400	Alloy C-276	Duplex	UNS S32750	Alloy 625	6Mo	Titanium Gr. 2						
Pipe Plug														
Valve Stem				316 /	316L									
Gland				3.	16									
Packing				PTFE or	Graphite									
Stem Nut				3	316									
Lock Nut				3	16									
Set Screw				3.	16									
T Handle				3.	16									
Lock Pin				A4 (316)									

Wetted components listed in **bold**.

Needle Valves according ASME B31.1 (Power Piping)

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

Features

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

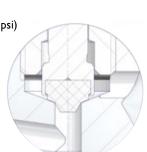


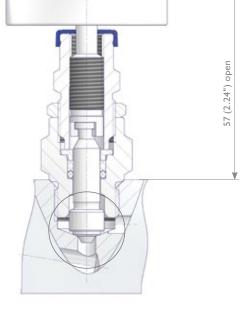
Needle Valves with O-Ring Stem Seal

Screwed Bonnet - O-Ring Stem Seal

Features

- Integral Valve Seat
- Non-rotating Needle
- External Stem Thread Packing below stem threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.
- Stem with cold rolled threads
- Blow-out proof Needle
- Back Seat Metal to metal secondary needle seal
- Lock Pin Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- O-Ring FKM, optional EPDM
- Soft Tip PCTFE or POM
- Max. allowable (Working) Pressure (PS): 420 bar (6,092 psi)
- Panel Mount Option not available
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel







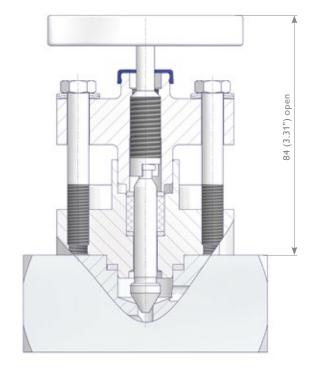
Color Coded Option FKM O-Ring Stem Seal with PCTFE Soft Tip

Needle Valves with OS&Y Bolted Bonnet

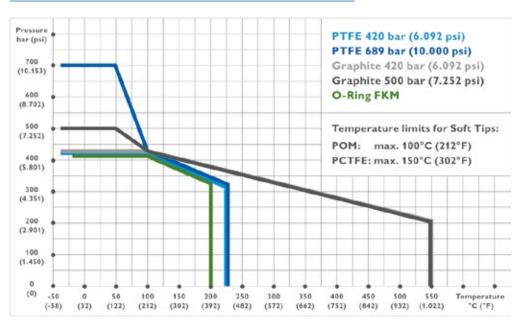
OS&Y Bolted Bonnet - Standard Packing

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

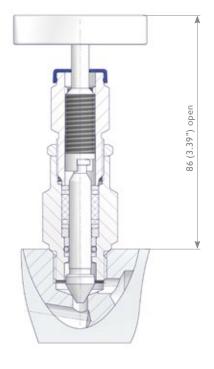
ISO FE Type 1:

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

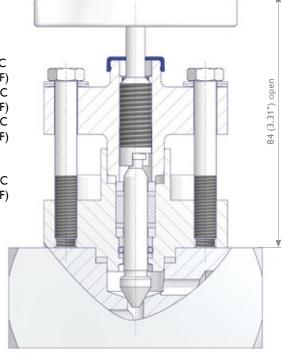
- Integral Valve Seat Metal to Metal Seated
- Non-rotating Needle
- External Stem Thread Packing below stem threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.
- · Stem with cold rolled threads
- Blow-out proof Needle
- Spring Washers for compensation 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 (-20°F to 392°F)

ISO FE Type 3:

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



Valve Head Units for Fugitive Emission Applications

Bellows Sealed Head Units

Screwed Bonnet - PN 100 and Graphite Safety Packing PN 250 and Graphite Safety Packing

Features

- Integral Valve Seat Metal to Metal Seated
- Non-rotating Stem
- Bellows sealed PN 100 and PN 250 incl. Graphite Safety Packing
- · Stem with cold rolled threads
- · Stellite Needle Tip as standard
- Bellows are submitted to a 100% Helium leak test
- Leak rate: 10-8 mbar 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.



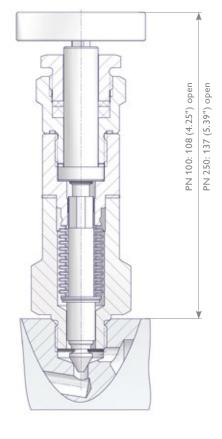
Packing adjustment may be required during the service life of the valves.



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

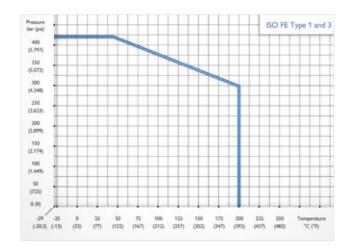


When delivered ex factory, the safety packing of the belllows sealed valve is not fully tightened. In the event of a bellows failure the safety packing must be tightened in order to avoid fluid leakage.



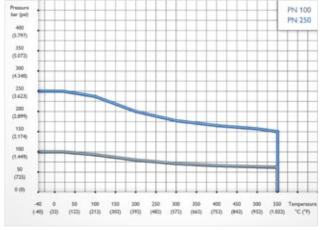
Pressure-Temperature Rating

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

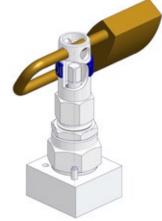
AS-Schneider is providing 2 Anti-Tamper Valve Head Units, both types are lockable with a padlock.

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

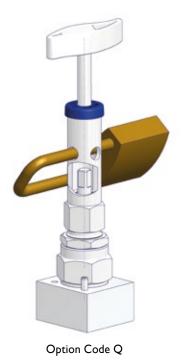
Incl. Padlock; Option Code U

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



www.as-schneider.com





Service Portal // Digital Valve Plate

Connections

Connections

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

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

Tube Fittings

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



Twin Ferrule Tube Fittings



Tapered Pipe Threads

NPT Male Threads acc. to ASME B 1.20.1

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

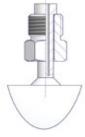


Socket Weld Ends for Pipes and Tubes acc. to EN12760 / ASME B16.11

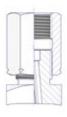


Pressure Gauge Connections -For Parallel Pipe Threads only

Swivel Male Connection



Adjusting Nut acc. to DIN 16283



Swivel Nut (Wire Design)



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

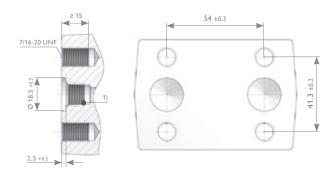


Connections | DIN EN 61518 / IEC 61518

Flange Connections

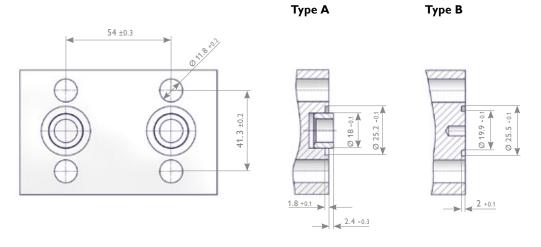
According to DIN EN 61518 the manifold-transmitter interface is applicable for a max. allowable (Working) Pressure (PS) of 413 bar*3 (6,000 psi) and a max. allowable Temperature (TS) of 120°C (248°F) for liquids, gas or vapors. The max. allowable Temperature (TS) of 120°C (248°F) is considering the requirement 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	518 / DIN EN 615	DIN EN 61518*1 *3					
		Type A with spigo	ot	Type B without spigot					
Max. allowable (Working) Pressure (PS) in bar (psi)		413 (6,000)*3		413 (6,000)*3				
Temperature Range in °C (°F)	-10 to +80 (14 to 176)	-15 to +120 (5 to 248)	-40 to +120 (-40 to 248)	-10 to +80 (14 to 176)	-40 to +120 (-40 to 248)				
Seal Ring*2	Flat Ring 24×17.7×2.7 Material: PTFE	O-Ring ISO 3601-1 20 x 2.65 S-FPM90 Material: FPM (FKM by ASTM)	Flat Ring 25.1 x 18 x 2.9 Material: Graphite	Flat Ring 25.4×20×2.7 Material: PTFE	Flat Ring 25.4×19.9×2.9 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).

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.

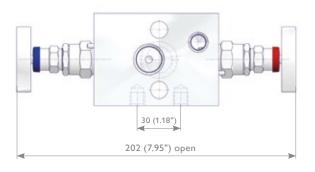
The standard type of 3 Valve Manifolds is the one without vent connection. 3 Valve Manifolds with vent connection are supplied with installed pipe plugs as standard. Integral Style 3 Valve Manifolds with Coplanar™ flange connection are provided with vent connections 1/4 NPT female as standard – plugged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

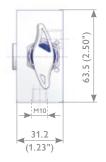
We differentiate between Wafer Style Manifolds (see Page 28-33) and Traditional Style Manifolds (see Page 34-37), the Wafer Type for the Rosemount 2051/3051 Coplanar™ Pressure Transmitter is just called Coplanar™ Style Manifold. You will find the Integral Manifolds for 2051/3051 Coplanar™ Pressure Transmitters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

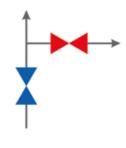
The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded / Flange Interface DIN EN 61518) - if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

Wafer Style Manifolds

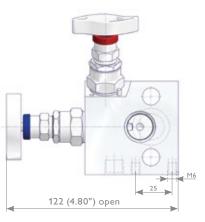
2 Valve Manifolds - Standard W2AA Type







2 Valve Manifolds - L-Shaped Bonnet Orientation W2LA Type





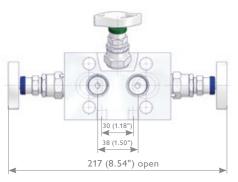




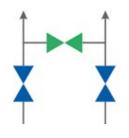


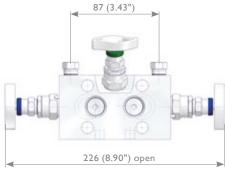
3 Valve Manifolds - Standard (Female x Flanged)

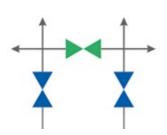
Without Vent Connection W3AA Type With Vent Connection W3BA Type





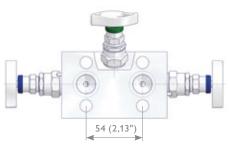




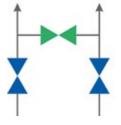


3 Valve Manifolds - Standard (Flanged x Flanged)

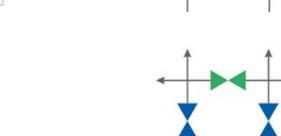
Without Vent Connection W3AB Type With Vent Connection W3BB Type









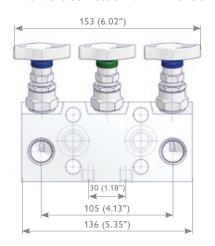




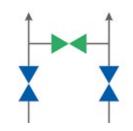


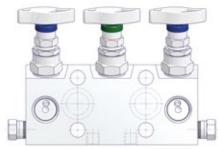
3 Valve Manifolds - Compact Design (Female x Flanged)

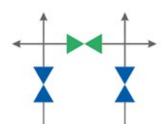
Without Vent Connection W3CA Type With Vent Connection 1/4 NPT Female W3DA Type



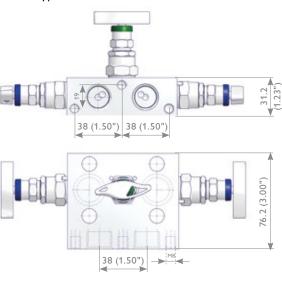


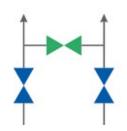






3 Valve Manifolds - Bottom Inlet Design (Female x Flanged) W3EA Type





For Bottom Inlet Design only

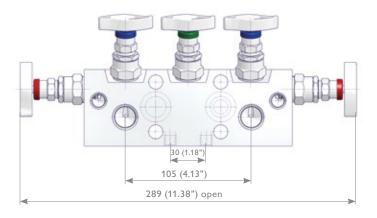


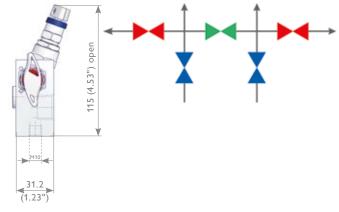


Mounting Bracket AKM-D Type See also Page 48.

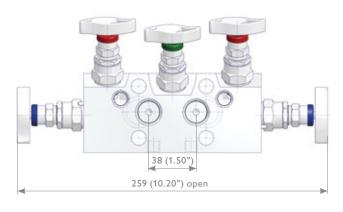
Service Portal // Digital Valve Plate

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





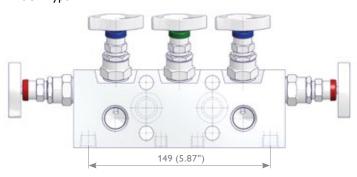
5 Valve Manifolds - Female x Flanged IEC 61518-B W5AA Type

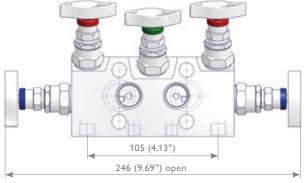




5 Valve Manifolds - Female x Flanged

Vent Ports on Bottom Face W5GA Type





Illustrated type with IEC 61518-A connection*

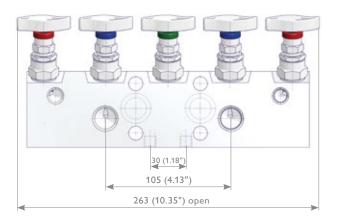
* Other dimensions same as W5AA Type

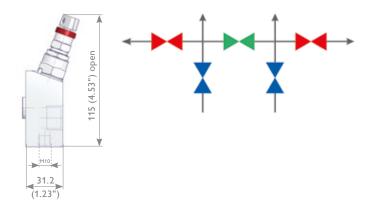
Illustrated type with IEC 61518-B connection* Only suitable for AKM-U type Mounting Bracket



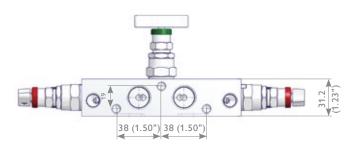


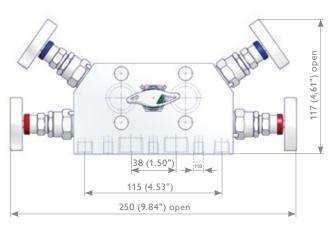
5 Valve Manifolds – Compact Design (Female x Flanged) W5CA Type





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





For Bottom Inlet Design only



For Compact Design



Ordering Information

					1	2	2	4	E	4	7	8	٥	10	11	12	12	14	15	16
					w	2	A	A	S	В	-	N	4	Т	E	-	A	Р	S	10
W	Wafer Style Manifolds																			
	Quantity Bonnets - 2-5																			
	Manifold Specifics																			
A B C D E G L	Standard – 2 Valve / 5 Valve Manifo Vent Ports 1/4 NPT Female Plugge Compact Design – 5 Valve Manifol Compact Design – 3 Valve Manifo Bottom Inlet Design Vent Ports on Bottom Face of th L-Shaped Bonnet Orientation	ed – For 3 d with Ve old with	3 Valve Manifolds only*2 ent Ports 1/4 NPT Female, 3 Valv Vent Port 1/4 NPT Female																	
	Inlet																			
A B C D	Female Flanged 1/2 NPT with Tube Fittings G 1/2 with Tube Fittings																			
	Material																			
S M H	1.4401 / 1.4404 / 316 / 316L Alloy 400 UNS N04400 Alloy C-276 UNS N10276	D	Duplex UNS S31803 Super Duplex UNS S32750 Alloy 625 UNS N06625	B T		JNS S31 um Grad														
	Bonnet																			
A B D E	PTFE Graphite ISO FE Series Type 1 ISO FE Series Type 3	W 2	O-Ring FKM (FPM by ISO) Carbon filled PTFE – TA-Luft Bellows sealed PN 100 Bellows sealed PN 250																	
	Inlet																			
N H	Thread Type NPT BSP Parallel (G) – DIN 3852	С	Fitting Type Single Ferrule Tube Fitting Twin Ferrule Tube Fitting		Т		Interfa Interface													
2 4	Thread Size 1/4 1/2	4 5	Tube Fitting Sizes 12 resp. 12S 14 resp. 14S 1/2"		4		Interfa		NPT											
	Outlet	,	1/2																	
	Transmitter Interface																			
TD TE	DIN EN 61518-A DIN EN 61518-B																			
	Options - Specify in alphabeti	ical orde	er (digits first, then letters)																	
В	Cleaned and Lubricated for Oxyge																			
F G	PCTFE Soft Tip POM Soft Tip																			
S	Stellite Valve Tip																			
A P	Vent Ports Plugged* ² Power Piping ASME B31.1 – For G	Graphite F	Packing only																	
K	Arctic Operations (-55°C (-67°F))																			
М	Wetted Parts with 3.1 certificate																			
	Operation Options Stainless Steel Handwheel with	Locking	Plate Design																	
J T	Anti-Tamper Bonnet (Key to be or	_	-																	
R	Anti-Tamper Bonnet (1 Key suppli AT-Key Lock Bonnet Design	ied per Va	alve/Manifold)																	
Q U	Padlock for Anti-Tamper Bonnet /	AT-Key L	Lock Bonnet Design																	
W	Stainless Steel Handwheel																			
1	Standard Accessory Kits for M				ing to E	DIN EN	61518	/ IEC 6	1518*4											
	Hex Cap Screw 7/16-20 UNF, Both Hex Cap Screw 7/16-20 UNF, Bot	_			ainless S	Steel I A	STM A1	193 B8M	Class	2, PTFE	Seal Rii	ngs								
		olt Lengt	th 1 3/4", C.S., Graphite Seal	Rings								_								
2				316 St	ainless S	steel I A	STM A1	193 B8M	Class	2, Grap	hite Sea	I Rings								
2	Hex Cap Screw 7/16-20 UNF, Bo	olt Lengi	th 1 3/4", Bolt Material S.S. =																	
2 3 4	Hex Cap Screw 7/16-20 UNF, Bo Mounting Bracket Kits				For Varti	cal Impu	ilsa Pinin	ng Install	ations*1			0.								
2	Hex Cap Screw 7/16-20 UNF, Bo	pe for 2"	Pipe Mounting supplied separa	itely – I				-		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.

Accessories - Mounting Bracket Kits

Mounting Bracket Kits for Vertical Impulse Piping Installations

AKM-S Type

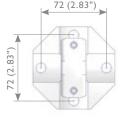
For Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S)



AKM-R Type

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



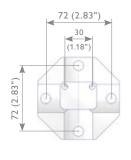


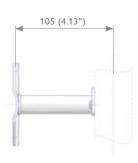


AKM-G Type

For Double Block & Bleed Manifolds (Type C)





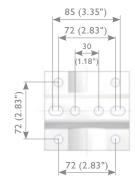


AKM-D Type and AKM-C Type

For Manifolds Type D, W and 5



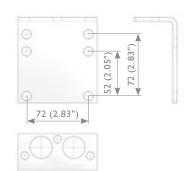




AKM-B Type

For Wafer Style Manifolds with Bottom Inlet Design





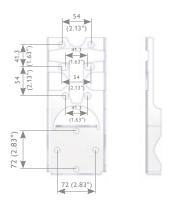
Accessories – Mounting Bracket Kits

Mounting Bracket Kits for Horizontal Impulse Piping Installations

AKM-T Type

For Integral Manifolds - Traditional Style



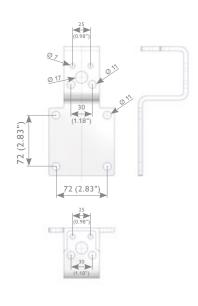


Mounting Bracket Kits for Horizontal and Vertical Impulse Piping Installations

AKM-U Type

For Manifolds Type H, W and T





Ordering Information

AKM Mounting Bracket Kits Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. "U" Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel											
AKM Mounting Bracket Kits Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting − incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel			1	2	3	4	5	6	7	8	9
Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel			Α	K	М	-	S	Р	S	-	
Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel											
Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel											
(if applicable) S Valves and Manifolds with 1 1/4" Square Valve Body (Type H, G, M and S) R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	AKM	Mounting Bracket Kits									
R Manifolds with 1 1/4" Flat Body (Type P and R) G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting − incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel			acket	to the	mani	fold					
G Manifolds Type C D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	S	Valves and Manifolds with 1 1/4" Square Valve Body (Type	H, G, №	and S)						
D Manifolds Type D, W and 5 B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	R	Manifolds with 1 1/4" Flat Body (Type P and R)									
B Wafer Style Manifolds with Bottom Inlet Design U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting − incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	G	Manifolds Type C									
U Manifolds Type H (not for Integral Manifolds for Rosemount 2051/3051 Coplanar™ Pressure Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting − incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	D	Manifolds Type D, W and 5									
Transmitters) Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	В	Wafer Style Manifolds with Bottom Inlet Design									
Manifolds Type W (except Bottom Inlet Design) Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. "U" Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	U		nt 2051/	3051 C	oplanar	™ Pressu	ıre				
Manifolds Type T C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. "U" Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel											
C Integral Manifolds - Coplanar™ Style T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel											
T Integral Manifolds - Traditional Style Mounting Method P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	С	71									
P 2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	Т	, , ,									
Material C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel		Mounting Method									
C Carbon Steel zinc plated (only available Mounting Bracket Kit AKM-D and AKM-C) S 316 Stainless Steel	Р	2" Pipe Mounting – incl. 'U' Bolt, Nuts and Washers									
S 316 Stainless Steel		Material									
	С	Carbon Steel zinc plated (only available Mounting Bracket	Kit AK	M-D a	nd AK1	1-C)					
II Mandagan for Marifold Too II and II Too Day day (Sala Consu)	S	316 Stainless Steel									
H I I I I I I I I I I I I I I I I I I I	Н	Mandatory for Manifolds Type H and U-Type Bracket (incl	. Spacer	.)							

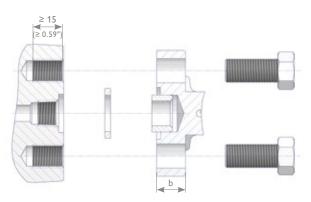
Mounting Bracket Kit

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
- * 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

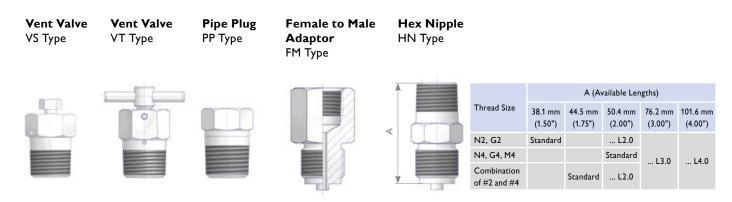




* IEC 61518 calls for the mentioned mechanical properties (for example B8 Class 2) because the flange connection is designed for high pressure service (up to 6,000 psi) and high temperature service. The usage of screws without the defined mechanical properties is critical and may lead to a sudden component 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	Pipe Plug Vent Valve with Bleed Sci	rew													
VT	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	order (digits first, then letters))											
B M	Cleaned for Oxygen Service Wetted Parts with 3.1 certification	ate – 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

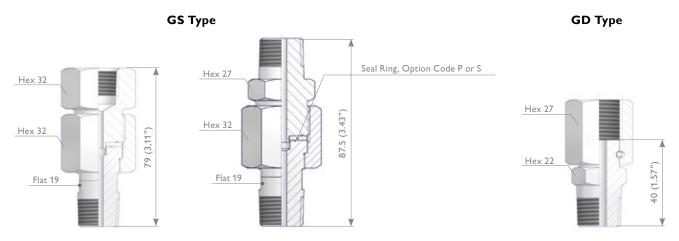
						1	2	3	4	5	6	7	8	9	10	11 - 16
						F	М	S	-	М	4	Ν	4	-	В	
FM	Female to Male Adaptor															
HN	•	be spe	cified in alphabetical resp. ascendi	ng orde	er.											
			N4 (and not HNS-N4G4) resp. HN													
	Material															
S	1.4401 / 1.4404 / 316 / 316L	F	Duplex UNS S31803	В	6Mo UNS 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													

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

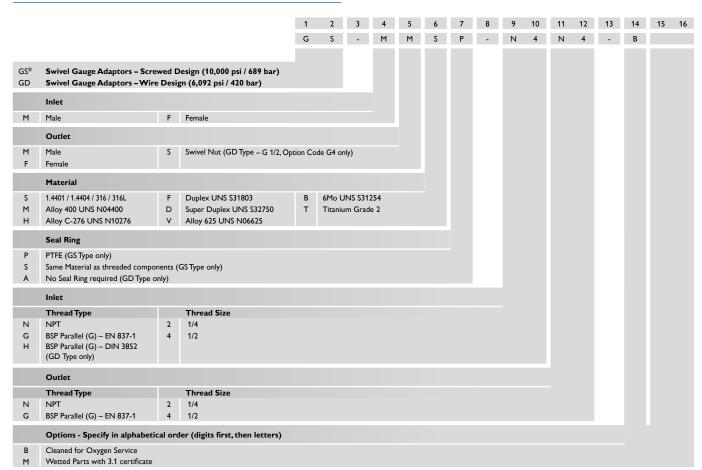
Accessories - Swivel Gauge Adaptors

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

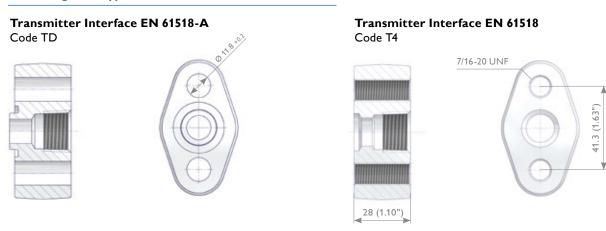


 $[\]ensuremath{^{*}}$ GS Type only: NPT Threaded Options as standard.

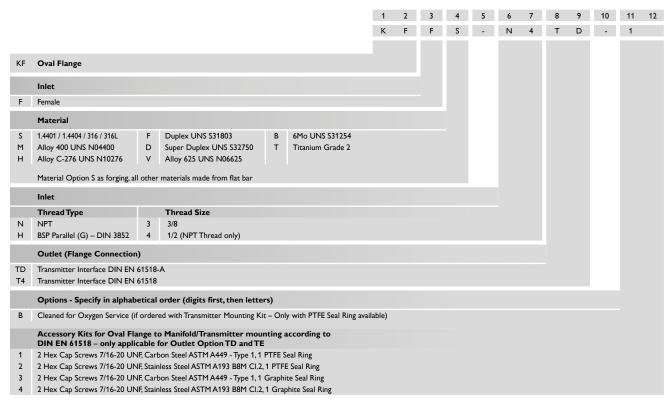
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2.

Accessories - Oval Flanges, Anti-Tamper Key

Oval Flanges KF Type



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



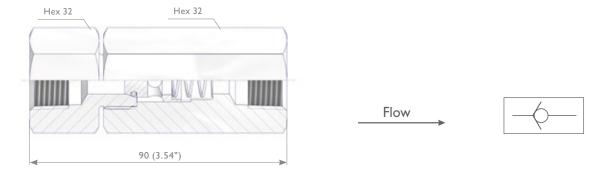
Check Valves

Check Valves CV Type

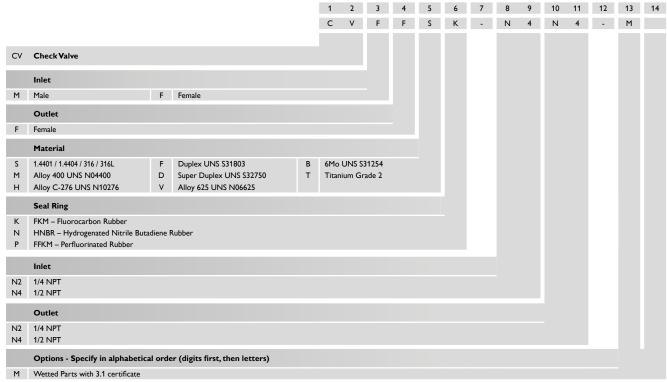
AS-Schneider Check Valves (Non-Return Valves) are designed for a cold (Working) Pressure rating of 10,000 psi (689 bar). The Check Valve allows flow in one direction only, closing when flow reverses. Should you still not find your option please contact the factory.

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



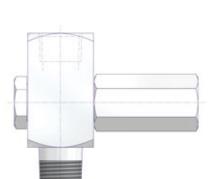
Wetted Parts according to a.m. material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue) - except Titanium Grade 2. Note: Check Valves which are not actuated for a period of time may initially crack at a higher pressure than above stated.

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



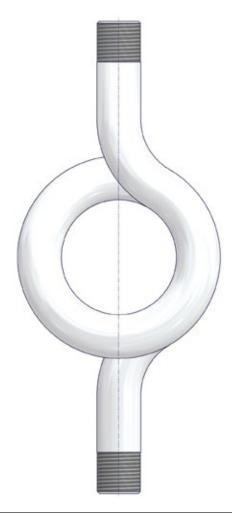
Gauge Snubbers



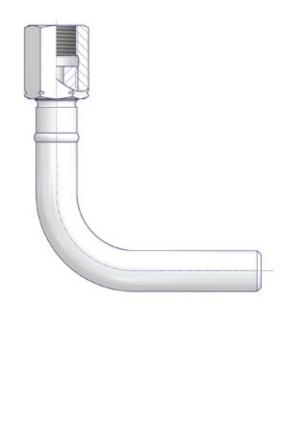
Compact Syphons



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



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