

Instrumentation Products

Needle Type Globe Valves and Accessories



Introduction

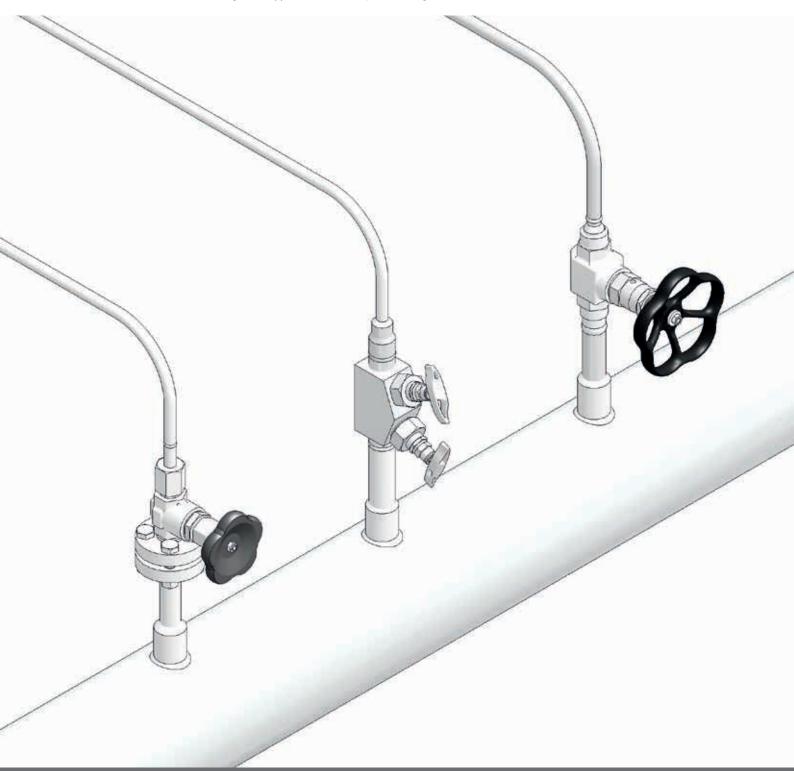
Introduction

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 Needle Type Globe Valves for General and Severe Service applications for liquids, gases and steam but also 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. If you need the dimensions for your individual type please contact the factory.

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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Needle Type Globe Valves Overview

Туре **S**338

Integral Bonnet Needle Valves DN 6 / Bore Size 6 mm

- Forged Body
- Integral Bonnet
- Integral Valve Seat
- Internal Stem Thread



Type S350 / S351

Needle Valves DN 8 / Bore Size 8 mm

- Forged Body
- Screwed Bonnet
- Replaceable Valve Seat
- Stem Thread
- S350 with Internal Stem Thread
- S351 with External Stem Thread
- F350 Bellows Sealed Option



Straight Pattern

Туре N334

Needle Valves DN 5 / Bore Size 5 mm

- Barstock Body
- Screwed Bonnet
- Integral Valve Seat
- Internal Stem Thread
- O-Ring Stem Seal
 → DVGW approved



Type S360

Angle Needle Valves DN 8 / Bore Size 8 mm

- Forged Body
- Screwed Bonnet
- Integral Valve Seat
- Internal Stem Thread

Туре Н

E Series Needle Valves DN 5 / Bore Size 5 mm

- Barstock Body
- Screwed Bonnet
- Integral Valve Seat
- External Stem Thread

Detailed information see Catalogue AS-2601 – E Series Valves and Manifolds - Hand Valves.



Type S371

Y-Pattern Needle Valves DN 8 / Bore Size 8 mm

- Forged Body
- Screwed Bonnet
- Integral Valve Seat
- External Stem Thread



Y-Pattern (Oblique Pattern)

Valve Patterns

Angle Pattern

Needle Type Globe Valves Overview

Type S340 / S381

Primary Isolation Valves DN 8 / Bore Size 8 mm

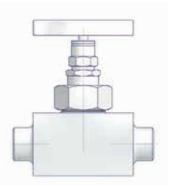
- Forged Body
- Screwed Bonnet
- Replaceable Valve Seat
- External Stem Thread



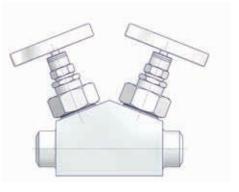
Type A1 / B1

Union Bonnet Needle Valves Type A1: DN 11 / Bore Size = 11 mm Type B1: DN 8 / Bore Size = 8 mm

- Barstock Body
- Union Bonnet Design
- Integral Valve Seat
- External Stem Thread



Type A1



Type B1

Type A2

Bolted Bonnet Needle Valves DN 20 / Bore Size 20 mm

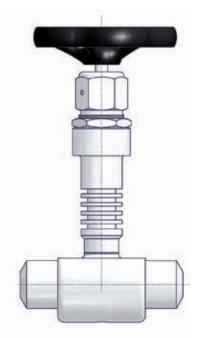
- Barstock Body
- Bolted Bonnet Design
- Integral Valve Seat
- External Stem Thread



Type A4

Primary Isolation Valves DN 10 / Bore Size 10 mm

- Barstock Body
- Welded Bonnet (extended)
- Integral Valve Seat



General Features

Body Material Options

Material Group	AS Material Designation	Material No.	Short Name	Equivalent UNS-No.	Material Grade acc. to ASTM	\$338	N334	H*4	S350 / S351	S340 / S381	A1	B1	A2	A4
Heat	Carbon Steel	1.0460	P250GH			S								
Resistant Unalloyed	LF2				LF 2		S	S						
Steel	1.0460 / A105N ^{*1}					0			S	S				
		1.4571	X6CrNiMoTi17-12-2	S31635	316Ti	S		0	S	S				
Austenitic	316	1.4401	X5CrNiMo17-12-2	S31600	316		0	c				c	c	
Stainless Steel	Quadruple Certified ^{*2}	1.4404	X2CrNiMo17-12-2	S31603	316L		0	S				S	S	
Steel		1.4919	X6CrNiMo17-12-2	S31609	316H						S			
	6 Mo	1.4547	X1CrNiMoCuN20-18-7	S31254				S						
Austenitic-	Duplex	1.4462	X2CrNiMoN22-5-3	S31803	F51			S				0		
Ferritic Stainless	Superduplex	1.4410	X2CrNiMoN25-7-4	S32750	F53			S				0		
Steel		1.4501	X2CrNiMoCuWN25-7-4	S32760	F55			S				0		
		1.5415	16Mo3							S		S	0	
		1.7335	13CrMo 4-5		F12					S*3		S		
Heat Resistant		1.7383	10CrMo 9-10		F22					S*3		S	0	
Steel		1.4901	X10 CrWMoVNb 9-2		F92					0				S
		1.4903	X10 CrMoVNb 9-1		F91					0	S	S	S	0
		1.4981	X8 CrNiMoNb 16 16											S
Nickel	Alloy 400	2.4360	NiCu30Fe	N04400				S				0		
Based	Alloy C-276	2.4819	NiMo 16 Cr 15 W	N10276				S				0		
Alloys	Alloy 625	2.4856	NiCr22Mo9Nb	N06625				S				0		
Titanium	Titanium Grade 2	3.7035	Ti-II	R50400				S						

*1 Dual Certified
 *2 Quadruple Certified means 316 / 316L / 1.4401 / 1.4404
 *3 Dual Certified EN/ASTM
 *4 See Catalogue AS-2601 - E Series Valves and Manifolds - Hand Valves

General Features

S = Standard I O = Optional

Standard Features

Packing:

PTFE and Graphite Packings are available for all valve types except the N334 Needle Valve which has an O-Ring stem seal.

Surface Treatment:

Carbon Steel Valves are phosphatized by default.

Pressure Test:

A shell test and a seat 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 Needle Type Globe Valve.

Certification:

Inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request. The heat resisting materials (see table on Page 6) are available by default with inspection certificate 3.2!



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



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

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

Valve Head Unit Options

Internal Stem Thread

Internal Stem Thread means Threads are in contact with process media.

Optional Features

Fugitive Emission Applications:

For Fugitive Emission Applications AS-Schneider is providing bellows sealed valves with safety packing. Choice of Pressure class PN 100 or PN 250 - Suffix P5 or P6.

The bellows are submitted to a 100% Helium leak test. Leak rate: $10^{\cdot8}\,\text{mbar}\,\text{l/s}.$

Optional available are TA-Luft and ISO 15848 solutions. For more details please contact the factory.

Oxygen Service:

AS-Schneider offers an option with Reinforced PTFE Packing cleaned and lubricated for Oxygen Service – Suffix F5:

Pressure-Temperature Rating:

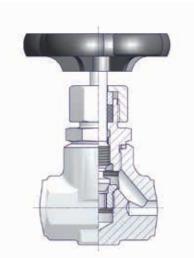
Max. 420 bar @ 60°C Max. 200°C @ 90 bar

Not every Valve type is available for Oxygen Service.

If you don't find your options in this catalogue, please contact the factory.

External Stem Thread

External Stem Thread means Packing below Stem Threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.

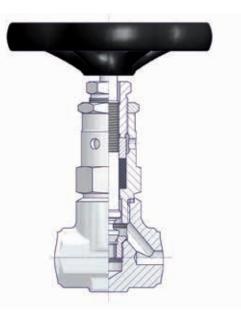


Stem Features

- · Stem with cold rolled threads
- Back seat (except Integral Bonnet Needle Valve)
- Non-rotating needle tip or alternatively non-rotating needle

Valve Seat (Metal to Metal)

- Integral Valve Seat or
- Replaceable Valve Seat



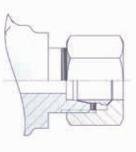
Connections

Connections

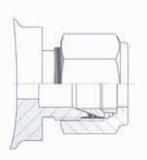
AS-Schneider is manufacturing a lot of different connections and connection combinations. In this catalogue we are showing the most popular types. On this page you will find the standard connections in detail.

Tube Fittings

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



Twin Ferrule Tube Fittings



Tapered Pipe Threads

NPT Male Threads acc. to ASME B 1.20.1

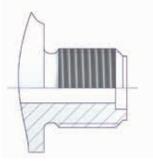


NPT Female Threads acc. to ASME B 1.20.1



Parallel Pipe Threads

BSP Parallel Male Threads acc. to DIN 19207 (G1/2) acc. to DIN 3852



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



Weld Ends

Butt Weld Ends for Pipes and Tubes acc. to ASME B16.9 and EN 12627

Socket Weld Ends for Pipes and Tubes acc. to ASME B16.11 and EN 12760

Combination of Pipe Butt Weld End x Tube Socket Weld End

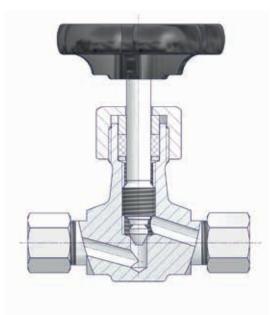




Integral Bonnet Needle Valves

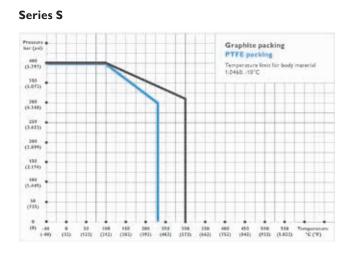
Features

- Forged Body DN 6 / Bore Size 6 mm
- Integral Bonnet
- Integral Valve Seat
- Internal Stem Thread
- Stem with cold rolled surface and non-rotating needle tip
- Standard-Packing PTFE (max. 232°C)
- Optional Graphite Packing (max. 300°C)

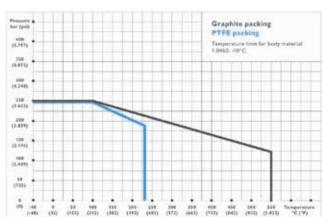


Components	Carbon Steel	Stainless Steel	
Components	Material / Material No.		
Body	1.0460		
Valve Stem	1.4104	1.4571	
Needle Tip	1.4122		
Packing	PTFE (Optional Graphite)		
Union Nut		1.4571	
Tube Fitting	Unalloyed Steel	1.45/1	
Handwheel	Plastic		

Pressure-Temperature Ratings

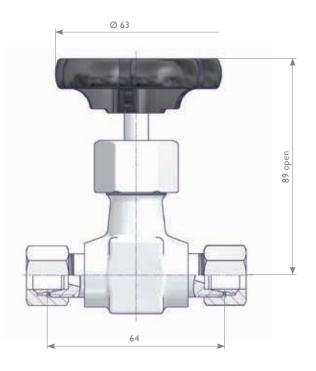


Series L



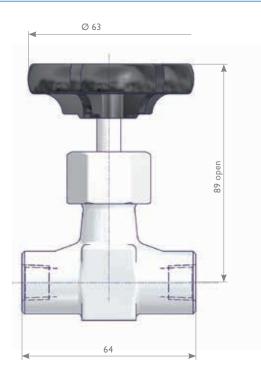
Needle Valves Type S338

Tube Fitting Connections Size S/L



Inlet	Outlet	Part Number			
Tube Fitting Sizes		Mate 1.0460	erial 1.4571		
e	SS	\$338.03.130	\$338.03.230		
8	3S	\$338.03.120	\$338.03.220		
1	0S	\$338.03.110	\$338.03.210		
1	2S	\$338.03.100	\$338.03.200		
e	ыL	\$338.03.180	\$338.03.280		
8	3L	\$338.03.170	\$338.03.270		
1	0L	\$338.03.160	\$338.03.260		
1	2L	\$338.03.150	\$338.03.250		

Female Threads



Inlet		Part Number			
	Outlet	Material	erial		
		1.0460	1.4571		
1/4 NPT	r Female	S338.08.110	\$338.08.210		
G 1/4 Female		\$338.08.115	\$338.08.215		
G 3/8 Female		S338.08.116	\$338.08.216		

Screwed Bonnet Needle Valves for Gas Service Type N334

Features

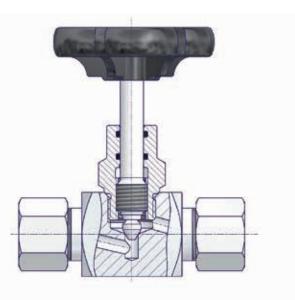
- Barstock Body DN 5 / Bore Size 5 mm
- Screwed Bonnet
- Integral Valve Seat
- Internal Stem Thread
- Stem with cold rolled surface, back seat and non-rotating needle tip
- O-Ring Stem Seal in FPM

DVGW approved Valves:

- Basis of type examination: DVGW VP 308
- For all gases acc. to DVGW G260
- DVGW Registration-No.: DG-4315BP0209

Pressure-Temperature Rating:

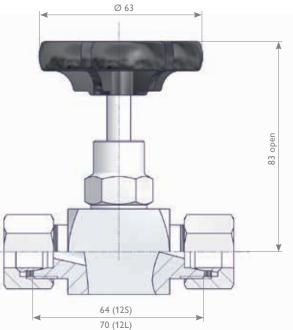
• Max. 100 bar @ -20°C up to +60°C



Components	Carbon Steel		
Components	Material / Material No.		
Body	LF2		
Bonnet	Brass		
Valve Stem	1.4104		
Needle Tip	1.4104		
Stem Seal	FPM		
Union Nut	Linelloyed Steel		
Single ferrule	Unalloyed Steel		
Handwheel	Plastic		

Needle Valve Type N334

DVGW tested and approved



Connections	Material	Part Number
Tube Fitting Sizes	Tateria	i ai t Nullibei
12L	Carbon Steel,	N334.01.104.0083
125	galvanized	N334.01.114.0083

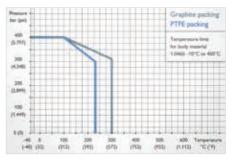
Needle Valves with threaded connections or weld ends are also available on request. Please contact the factory.

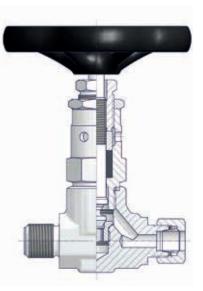
Features

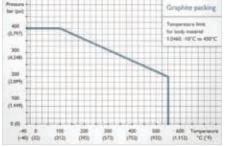
- Forged Body DN 8 / Bore Size 8 mm
- Screwed Bonnet
- Replaceable Valve Seat
- Stem with cold rolled surface, back seat and non-rotating needle tip

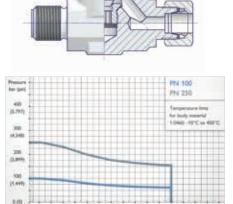
S350 with Internal Stem Thread

S351 with External Stem Thread*









F350 Bellows sealed option*

Componente	Carbon Steel	Stainless Steel		
Components	Material / Material No.			
Body	1.0460			
Bonnet	1.0501			
Valve Seat	1.4571	1.4571		
Valve Stem	1.4104			
Needle Tip	1.4122			
Packing	PTFE (optional Graphite)			
Union Nut	Unalloyed	1.4571		
Tube Fittings	Steel	1.45/1		
Handwheel	Plastic			

Components	Carbon Steel	Stainless Steel	
Components	Material / Material No.		
Body	1.0460		
Bonnet	1.7709		
Valve Seat	1.4571	1.4571	
Valve Stem	1.4021		
Needle Tip	1.4122		
Packing	Gra	phite	
Stem Nut	Brass	1.4301	
Union Nut	1.0501	1.4571	
Single Ferrule	1.4571		
Handwheel	Unalloyed Steel		

Componente	Carbon Steel	Stainless Steel	
Components	Material / Material No.		
Body	1.0460		
Bonnet			
Bellow	4 4574	1.4571	
Valve Seat	1.4571		
Valve Stem			
Needle Tip	Ste	llite	
Packing	Gra	phite	
Stem Nut	1.4	122	
Union Nut	1.0501	1.4571	
Single Ferrule	1.4571		
Handwheel	Plastic		

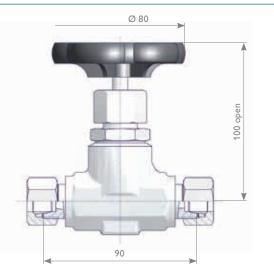
* Temperature limit for Carbon Steel -10°C to 450°C.

Temperature limit for Single Ferrule Tube Fitting max. 400°C.

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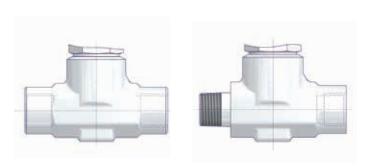
Needle Valves Type S350

Tube Fitting Connections Size S



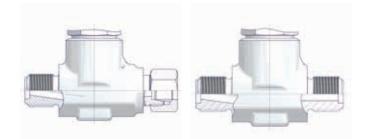
Inlet	Outlet	Matorial	Material Part Numbe	
Tube F	tting Sizes	Flaterial	raitinumber	
	125	1.0460	\$350.01.114	
	125	1.4571	\$350.01.214	
14S		1.0460	S350.01.115	
		1.4571	\$350.01.215	

Threaded Connections



Inlet	Outlet	Material	Part Number
G 1/2 Female		1.0460	\$350.03.104
		1.4571	\$350.03.204
	- Eomolo	1.0460	\$350.03.124
1/2 NPT Female		1.4571	\$350.03.224
1/2 NPT Male	1/2 NPT Female	1.0460	\$350.07.124
		1.4571	\$350.07.224

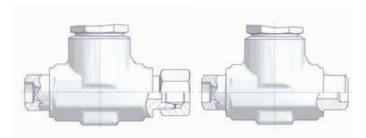
Male Threads DIN 19207 / Tube Fitting Connection*



	Inlet	Outlet	Material	Part Number
	G 1/2 Male NN 19207 –	Tube Fitting	1.0460	\$350.07.114.06
	Type R	Size 12S	1.4571	\$350.07.214.06
G		19207 – Type R	1.0460	\$350.09.100.02
G		19207 – Type K	1.4571	\$350.09.200.02

* Max. allowable (Working) Pressure (PS) PN 160.

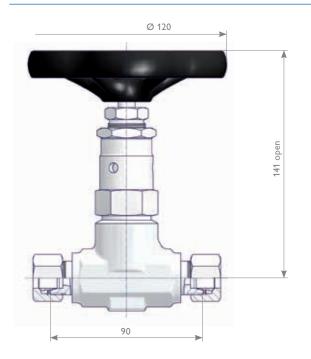
Weld Ends / Tube Fitting Connection



Inlet	Outlet	Material	Part Number
Weld End	Tube Fitting	1.0460	\$350.05.130
Ø 21.3 x Ø 12.2	Size 12S	1.4571	\$350.05.230
Wald End Q	11 2 <i>(</i> 3 12 2	1.0460	\$350.05.100
Weld End Ø 21.3 x Ø 12.2		1.4571	\$350.05.200

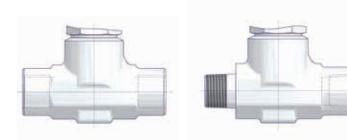
Needle Valves Type S351

Tube Fitting Connections Size S



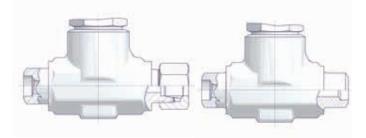
Inlet	Outlet	Material	Part Number	
Tube Fit	Tube Fitting Size		r ur e r tumber	
1	nc	1.0460	\$351.01.114	
I	125		\$351.01.214	
1	445		S351.01.115	
14S		1.4571	\$351.01.215	

Threaded Connections



Inlet	Outlet	Material	Part Number
C 1/2	G 1/2 Female		\$351.03.104
G 1/2			\$351.03.204
1/2 NID	T Famala	1.0460	\$351.03.124
I/Z INP	1/2 NPT Female		\$351.03.224
1/2 NIPT Mala	1/2 NPT Male 1/2 NPT Female		\$351.07.124
1/2 INP I Male			\$351.07.224

Weld Ends / Tube Fitting Connection



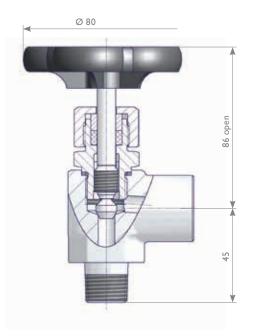
Inlet	Outlet	Material	Part Number
Weld End	Tube Fitting	1.0460	\$351.05.130
Ø 21.3 x Ø 12.2	Size 12S	1.4571	\$351.05.230
	24.2	1.0460	\$351.05.100
Weld End Ø 21.3 x Ø 12.2		1.4571	\$351.05.200

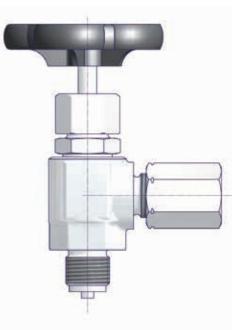
Angle Needle Valves Type S360

Features

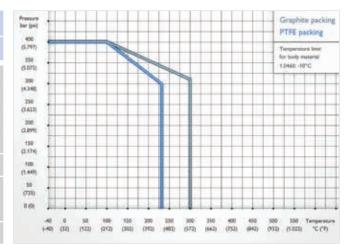
- Forged Body DN 8 / Bore Size 8 mm
- Screwed Bonnet
- Integral Valve Seat
- Stem with cold rolled surface, back seat and non-rotating needle tip

Please contact the factory for Your Angle Pattern Needle Valve.





Componente	Carbon Steel Stainless Stee		
Components	Material / Material No.		
Body	1.0460		
Bonnet	1.0501	4 4574	
Valve Stem	1.4104	1.4571	
Needle Tip	1.4122		
Packing	PTFE (Optio	nal Graphite)	
Union Nut	Lipalloyad Staal	1.4571	
Tube Fitting	Unalloyed Steel	1.45/1	
Handwheel	Plastic		



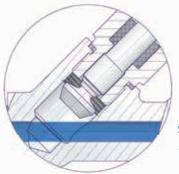
Y-Pattern Needle Valves Type S371

Features

- Forged Body DN 8 / Bore Size 8 mm
- Screwed Bonnet
- Integral Valve Seat
- External Stem Thread
- \bullet Stem with cold rolled surface, back seat and non-rotating needle tip

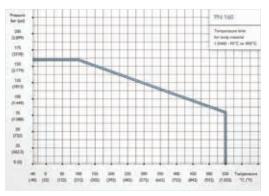
Please contact the factory for Your Y-Pattern Needle Valve.





Straight-Through Design \rightarrow Valve is fully roddable

Components	Material / Material No.
Body	
Bonnet	4 4574
Valve Stem	1.4571
Needle Tip	
Packing	Graphite
Stem Nut	1.4301
Handwheel	Unalloyed Steel

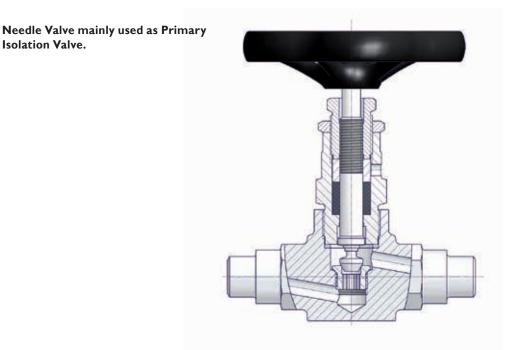


For Pressures exceeding 160 bar please contact the factory.

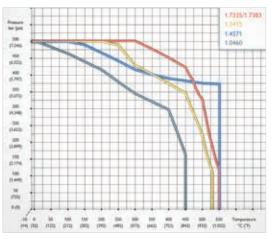
Screwed Bonnet Needle Valves Type S340 / S381

Features

- Forged Body DN 8 / Bore Size 8 mm
- Screwed Bonnet
- Replaceable Valve Seat
- Stem with cold rolled surface, back seat and non-rotating needle tip



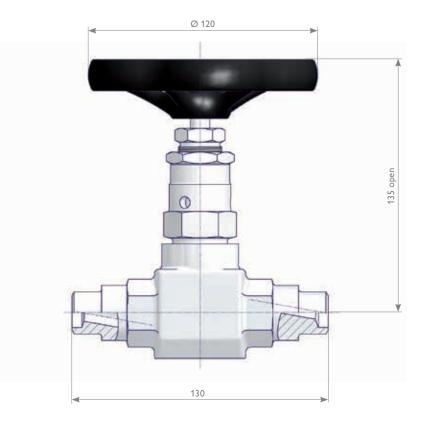
6	Carbon Steel	Steel Heat Resistant Steel		Stainless Steel
Components				
Body	1.0460	1.7335 / 1.5415	1.7383	
Bonnet		1.7709		
Valve Seat	1.4571		1.4981	1.4571
Valve Stem	1.4021		1.4571	
Needle Tip	1.4122		Stellite	
Packing		Graph	ite	
Stem Nut	Brass		1.4	4301
Handwheel	Unalloyed Steel			



The respective max. allowable (Working) Pressure (PS) depends on the tube / pipe connection used. For further information please contact the factory.

Screwed Bonnet Needle Valves

Weld Ends



Weld End Connections		Part Number				
			Material			
Inlet	Outlet	1.0460	1.7335	1.5415	1.7383	1.4571
Tube Butt Weld	1 End Ø 14 x 2.5	\$340.11.112.04	S340.11.114.04	S340.11.600.11	\$340.16.112.04	\$340.11.212.04
Pipe Butt Weld	End Ø 21.3 x 3.2	\$340.11.135.31	\$340.11.136.31	\$340.11.636.31	\$340.16.136.31	\$340.11.236.31
Pipe Butt Weld	End Ø 21.3 x 2.9	\$340.11.135.32	\$340.11.136.32	\$340.11.636.32	\$340.16.136.32	S340.11.236.32
Pipe Butt Weld End Ø 21.3 x 3.2	Tube Butt Weld End Ø 14 x 2.5	\$340.11.135.33	\$340.11.136.33	\$340.11.636.33	\$340.16.136.33	\$340.11.236.33
Pipe Butt Weld End Ø 21.3 x 2.9	Tube Butt Weld End Ø 14 x 2.5	S340.11.135.34	\$340.11.136.34	\$340.11.636.34	\$340.16.136.34	\$340.11.236.34
Pipe Butt Weld End Ø 21.3 x 6.3	Tube Butt Weld End Ø 14 x 2.5	\$340.11.135.37	\$340.11.136.37	\$340.11.636.37	\$340.16.136.37	\$340.11.236.37
Pipe Butt Weld End Ø 24 x 7.1	Tube Butt Weld End Ø 14 x 2.5	\$340.11.135.40	\$340.11.136.40	\$340.11.636.40	\$340.16.136.40	\$340.11.236.40
Pipe Socket \	Veld End 1/2"	S381.40.114.01	S381.40.614.01	S381.40.714.01	S381.40.514.01	\$381.40.214.01

Union Bonnet Needle Valves Type A1

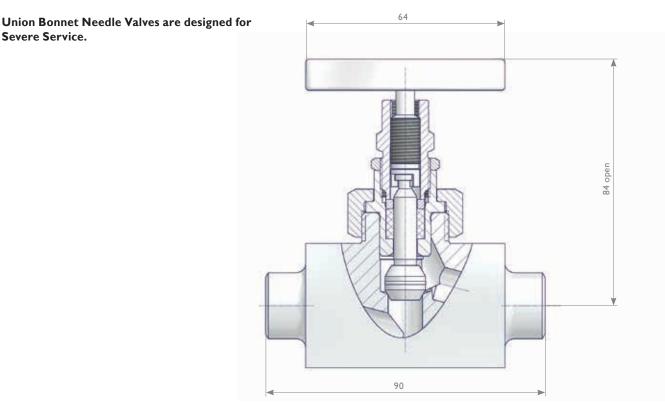
Features

- Barstock Body DN 11 / Bore Size 11 mm
- Union Bonnet
- Integral Valve Seat

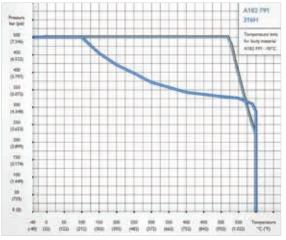
Severe Service.

- External Stem Thread
- Valve Stem with cold rolled threads
- Non-rotating Needle and back seat design

Options see Ordering Information on Page 23.



Components	Heat Resistant Steel Stainless Steel				
Components	Material / Material No.				
Body	1.4903 / F91*	316H			
Bonnet	1.4903 / F91	316 / 316L			
Valve Stem	1.4404 / 316L				
Needle	1.4923 - Tip Stellite	316 / 316L			
Union Nut	1.7709	316 / 316L			
Packing	PTFE or Graphite				
Stem Nut	316				
T Bar Handle	Options see Ordering Information				



PTFE Packing is limited to 232°C (450°F).

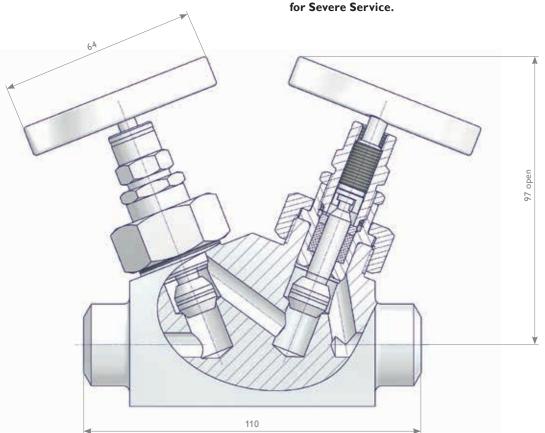
The respective max. allowable (Working) Pressure (PS) depends on the tube / pipe connection used. For further information please contact the factory.

* Welded connections in material 1.4903 / F91 / 1.7335 / 1.7380 require post weld heat treatment (PWHT) at around 700 - 750°C. The valve head unit must be removed prior to the heat treatment to avoid damages. See the installation, operation and maintenance manual for instructions. We recommend to order these valves with 100 mm pipe extensions (Option V - Box 15) to avoid the removal of the valve head units.

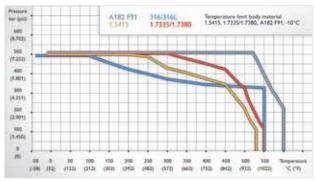
Features

- Barstock Body DN 8 / Bore Size = 8 mm
- Union Bonnet
- Integral Valve Seat
- External Stem Thread
- Valve Stem with cold rolled threads
- Non-rotating Needle and back seat design

Options see Ordering Information on Page 23.



Componente	Heat	Stainless Steel				
Components		Material / Material No.				
Body	1.4903 / F91*	1.5415	1.7335*	1.7380*	316 / 316L	
Bonnet	1.4903 / F91			316 / 316L		
Valve Stem		1.4404 / 316L				
Needle	1.4923 - Tip Stellite			316 / 316L		
Union Nut	1.7709			316 / 316L		
Packing	PTFE or Graphite					
Stem Nut	316					
T Bar Handle	Opt	Options see Ordering Inform			nation	



Union Bonnet Tandem Valves are designed

PTFE Packing is limited to 232°C (450°F).

The respective max. allowable (Working) Pressure (PS) depends on the tube / pipe connection used. For further information please contact the factory.

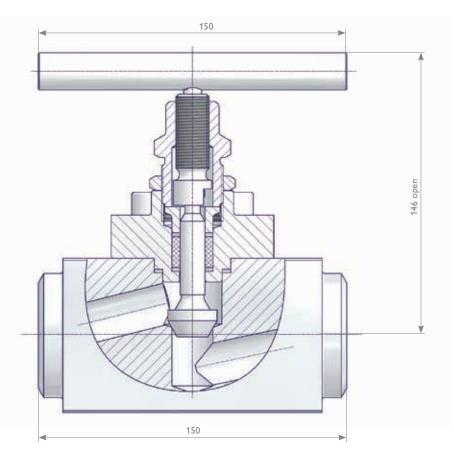
* Welded connections in material 1.4903 / F91 / 1.7335 / 1.7380 require post weld heat treatment (PWHT) at around 700 - 750°C. The valve head unit must be removed prior to the heat treatment to avoid damages. See the installation, operation and maintenance manual for instructions. We recommend to order these valves with 100 mm pipe extensions (Option V - Box 15) to avoid the removal of the valve head units.

Bolted Bonnet Needle Valves Type A2

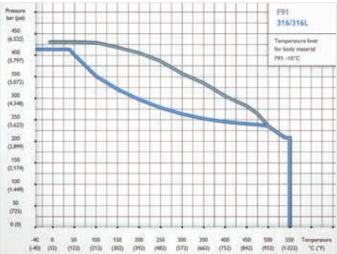
Features

- Barstock Body DN 20 / Bore Size 20 mm
- Bolted Bonnet
- Integral Valve Seat
- External Stem Thread
- Valve Stem with cold rolled threads
- Non-rotating Needle and back seat design

Options see Ordering Information on Page 23.



Components	Heat Resistant Steel Stainless Steel			
Components	Material / Material No.			
Body	1.4903 / F91 316 / 316L			
Bonnet	1.4903 / F91 316 / 316L			
Body-Bonnet Seal	Graphite			
Valve Stem	S17400			
Needle	1.4923 - Tip Stellite	316 / 316L		
Bonnet bolting	1.4980 / A453 Gr.660 Cl.B			
Packing	PTFE or Graphite			
Stem Nut	1.4301 / 304			
T Bar Handle	Options see Ordering Information			



PTFE Packing is limited to 232°C (450°F).

The respective max. allowable (Working) Pressure (PS) depends on the tube / pipe connection used. For further information please contact the factory.

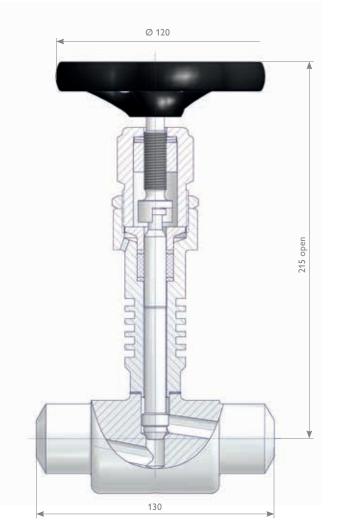
Welded Bonnet Needle Valves Type A4

Features

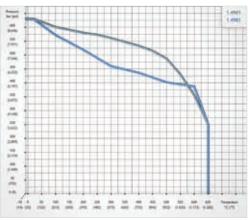
- Barstock Body DN 10 / Bore Size 10 mm
- Electron Beam Welded Bonnet
- Extended Bonnet to dissipate heat and to lower heat at the packing and the stem threads
- Integral Valve Seat
- External Stem Thread
- Valve Stem with cold rolled threads
- Non-rotating Needle and back seat design

Options see Ordering Information on Page 23.

Needle Valve for High Temperature Service.



Componente	Heat Resistant Steel	Stainless Steel			
Components	Material / Material No.				
Body	1.4901	1.4981			
Bonnet	1.4901	1.4981			
Valve Stem	1.4923				
Needle	Alloy 80A				
Packing	Graphite				
Stem Nut	1.4571				
T Bar Handle	Options see Orde	ering Information			



Graphite Packing only.

Ordering Information I A1, B1, A2 and A4 Needle Valves

Ordering Information

							1 2	3	4	5	6	7	8	9	10	11	12	13	14	1
							B 1	В	-	А	4	Р	Α	4	Р	-	S	А	Κ	
	Valve Type																			
1 1	Union Bonnet Need Union Bonnet Tando																			
.2	Bolted Bonnet Need																			
4	Welded Bonnet Nee	edle Valve DN	1 10 / Bo	ore Size 10 mm (Gra	phite Packing on	ly.)														
	Packing																			
A B	PTFE Graphite																			
N	Carbon-Filled PTFE	– TA-Luft																		
	Inlet Connection																			
A	Butt Weld End																			
D H	Socket Weld End Twin Ferrule Tube F	itting																		
L	Female Thread	itting																		
	Pipe / Tube			Tube Fitting			Thread													
4	1/2" pipe		R	Rotarex		Ν	NPT													
6 8	3/4" pipe*1 1" pipe*1		S	Swagelok																
2	10 mm																			
D E	12 mm 14 mm																			
c F	14 mm 16 mm																			
G	18 mm																			
к т	25 mm*1 1" tube*1																			
V	1 1/4" tube*1																			
Х	1 1/2" tube*1+2																			
2	Wall Thickness P	ipes / Tubes		Tube O.D.			Thread Si	ze												
2 3	2.0 mm 3.2 mm		4 5	12 14		4	1/2"													
4	4.0 mm		6	16																
8 4	2.6 mm 3.6 mm																			
2	5.0 mm																			
E G	5.5 mm 7.0 mm																			
V	Schedule 40																			
Р	Schedule 80 Schedule 160																			
Q	Socket Weld																			
Q		n → see Inl	et Con	nection Ordering	Information S	pecific	s													
Q A	Socket Weld	n → see Inl	et Con	nection Ordering	Information S	pecific	S													
Q	Socket Weld Outlet Connectio Body Material A1	B1	et Con	A2	Information S	pecific	S													
2 4 2	Socket Weld Outlet Connectio Body Material A1 -	B1 1.7335	et Con	A2 -	A4 -	pecific	S													
Q A R S J	Socket Weld Outlet Connectio Body Material A1	B1 1.7335 316/316L 1.7380	et Con	A2 - 316/316L -	A4	pecific	S													
Q A R S U V	Socket Weld Outlet Connectio Body Material - 316H - F91	B1 1.7335 316/316L 1.7380 F91	et Con	A2 - 316/316L - F91	A4 - - - -	pecific	S													
5 7 7 7 7 7 7 7 7 7 7	Socket Weld Outlet Connectio Body Material - 316H -	B1 1.7335 316/316L 1.7380	et Con	A2 - 316/316L -	A4 - - -	pecific	S													
5 A 7 7 7 7	Socket Weld Outlet Connectio Body Material - 316H - F91 -	B1 1.7335 316/316L 1.7380 F91 1.5415	et Con	A2 316/316L F91 	A4 	pecific	S													
5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Socket Weld Outlet Connectio Body Material A1 - 316H - F91 - - -	B1 1.7335 316/316L 1.7380 F91 1.5415 – –	et Con	A2 - 316/316L - F91 -	A4 1.4981	pecific	S													
2 4 5 J V 2 2 K Y	Socket Weld Outlet Connectio Body Material A1 - 316H - F91 - - - - -	B1 1.7335 316/316L 1.7380 F91 1.5415 – –	et Con	A2 - 316/316L - F91 -	A4 1.4981	pecific	S													
2 4 5 J V 2 2 K Y	Socket Weld Outlet Connectio Body Material - 316H - F91 - - Vent Connection	B1 1.7335 316/316L 1.7380 F91 1.5415 - -	et Con	A2 - 316/316L - F91 -	A4 1.4981	pecific	S													
2 A 2 3 7 7 7 7 4	Socket Weld Outlet Connectio Body Material A1 - 316H - F91 - - - Vent Connection Without Operation Option Handwheel Unalloyu	B1 1.7335 316/316L 1.7380 F91 1.5415 - - - IS Steel: Stan	dard Op	A2 - 316/316L - F91 - - -	A4 - - - 1.4981 1.4901 ves Type A4	pecific	S													
Q A R S J	Socket Weld Outlet Connection Body Material A1 - 316H - F91 - - - Vent Connection Without Operation Option	B1 1.7335 316/316L 1.7380 F91 1.5415 - - - IS Steel: Stan	dard Op	A2 - 316/316L - F91 - - -	A4 - - - 1.4981 1.4901 ves Type A4	pecific	S													
2 A A C C C C C C C C C C C C C C C C C	Socket Weld Outlet Connectio Body Material A1 - 316H - F91 - - - Vent Connection Without Operation Option Handwheel Unalloyu	B1 1.7335 316/316L 1.7380 F91 1.5415 - - - - - - - - - - - - -	dard Op	A2 - 316/316L - F91 - - -	A4 - - - 1.4981 1.4901 ves Type A4	pecific	S													

 $^{\ast1}\mbox{Socket}$ Weld End for A2 Needle Valve only.

 $^{\ast 2}\,\text{Butt}$ Weld End not available for A1 Needle Valve.

Condensate Pots

Product Description

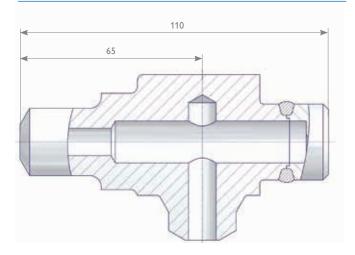
Condensate Pots (also called Seal Pots) are used in the measurement of steam or other vapors for two reasons: One reason is that a level of condensed water is accumulated inside of the pot and maintains a fluid volume for displacement equal to or greater than the volume displacement of the transmitter (protecting the transmitter from heat).

The second reason for maintaining a liquid inside of the pot is to prevent flashing of the liquid in the impulse line if a sudden temperature change of the steam is made. A dam inside of the pot prevents this flashing effect.

Pots with more outlet ports for applications where foreign material should be trapped and drained preventing damage of the manifolds and transmitters are also available.

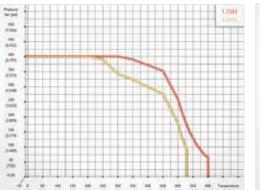
For more details please contact the factory. For details see also DIN 19211.

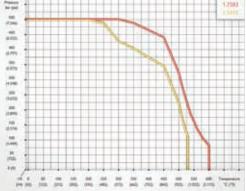
Condensate Pots for Small Volume Displacements



Optional Condensate Pot / Primary Isolation Valve Assembly -Factory Welded



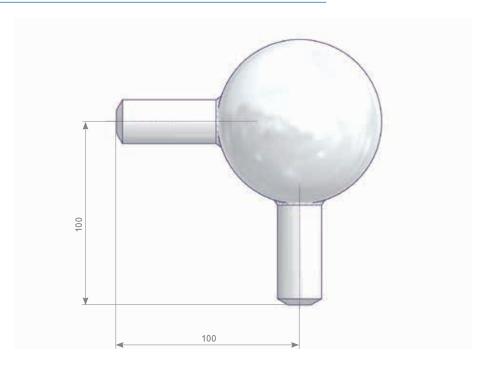


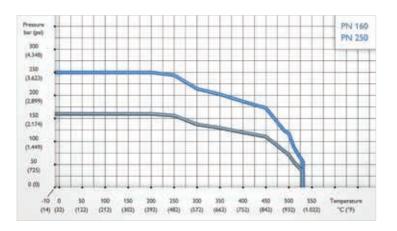


Weld End (Connections	Part Number				
Weld End V	Material					
			1.5415	1.7383		
Inlet	Outlet	PN	Volume (approx.)			
			20 cm ³	20 cm ³		
Pipe Butt Weld	Pipe Butt Weld End Ø 21.3 x 3.2					
Pipe Butt Weld	500	S007.51.600.45				
Pipe Butt Weld	d End Ø 24 x 7.1	500	\$007.51.600.26	S007.51.500.26		

Condensate Pots

Condensate Pots for Larger Volume Displacements





Weld End C	onnections	Part Number				
Weld Ella C		Material				
		1.5415				
Inlet	Inlet Outlet		Volume			
		PN	250 cm ³	700 cm ³		
Pipe Butt Weld End Ø 21.3 × 6.3			\$007.51.653.05			
Pipe Butt Weld End Ø 33.7×4.5	Pipe Butt Weld End Ø 24×7.1	250		\$007.51.653.06		
G 1/2 Male DIN 19207 Type R	G 1/2 Male DIN 19207 Type V	160	\$007.51.653.04			

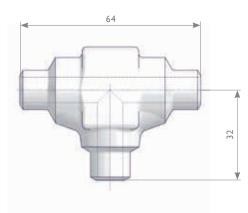
Weld Fittings I Tees, Reducers, Connectors

Product Description

AS-Schneider is providing a large range of Weld Fittings – different concerning shape (Tees, Elbows, etc.) and connections (for pipes and tubes) and different in terms of available materials. On this page we are just showing the most used types.

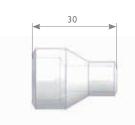
If you don't find your option please contact the factory.

Tees



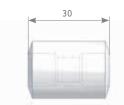
	Part Number					
Weld End Connections	Material					
	1.5415	1.7335	1.4571			
Pipe Butt Weld End \emptyset 21.3 x 3.2	\$006.40.610.43		\$006.40.210.43			
Tube Butt Weld End Ø 14 x 2.5	\$006.40.600	S006.40.101	\$006.40.200			
Tube Socket Weld End Ø 12			\$006.40.210			

Reducers (Pipe Butt Weld x Tube Butt Weld)



		Part Number			
Weld End C	Connections	Material			
		1.5415	1.4571		
Pipe Butt Weld End Ø 21.3 x 3.2	Tube Butt Weld End Ø 12 x 1.5		\$006.40.230.20		
Pipe Butt Weld End \emptyset 21.3 x 3.2	Tube Butt Weld End Ø 14 x 2.5	\$006.40.630.14	S006.40.230.14		
Pipe Butt Weld End Ø 33.7 x 4.5	Tube Butt Weld End Ø 14 x 2.5	\$006.40.632.84	\$006.40.232.84		

Connectors (Pipes and Tubes)



	Part Number				
Weld End Connections	Material				
	1.5415	1.4571			
Weld End Ø 21.3 x Ø 12.2		S006.40.220			
Weld End Ø 21.3 x Ø 14.25	\$006.40.120.04	\$006.40.220.04			

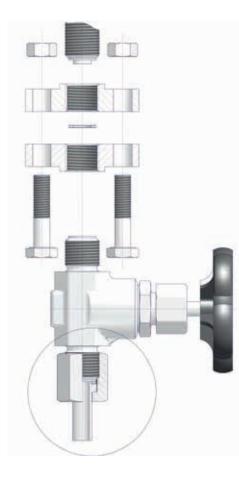
Product Description

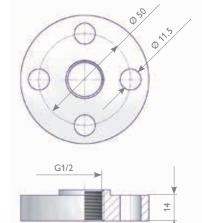
DIN 19207 is defining 2 different Threaded Connections (Type V and Type R) to be used either for a Flanged Connection with Threaded Flanges or a Nipple Connection. For more details see DIN 19207. The max. allowable (Working) Pressure (PS) for this connection is defined at 160 bar.

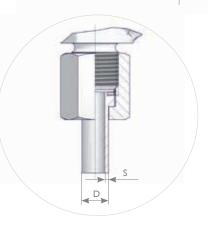
Valves with DIN 19207 connections see Page 13, condensate pots see Page 25.

Flange Connection I Accessory Kit

Mounting Kit contains	Material	Part Number
4 Hexagon Nuts DIN EN ISO 4032 - M10 4 Hex Cap Screws DIN EN ISO 4014 - M10 x 45	Carbon Steel Nuts and Screws 1.1181, Gasket 1.4571, Flange 1.0460	\$006.39.100.02
1 Grooved Gasket DIN 19207 - B 1/2 2 Threaded Flanges DIN 19207 - G 1/2	Stainless Steel Nuts A4-70, Screws A2-70, Gasket 1.4571, Flange 1.4571	S006.39.200.02







Nipple Connection I Accessory Kit

Unio	Union Nut		Nippl	e	Grooved Gasket	Accessory Kit
Thread	Material	D	s	Material	Material	Part Number
	1.1181	1 / 5	1.5415		S007.45.103.10	
6.4/2	1.4571	12	1.65	1.4571		S007.45.203.10
G 1/2	1.1181	4.4	2 5	1.5415	1.4571	S007.45.103.11
	1.4571	14	2.5	1.4571		S007.45.203.11



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ARMATURENFABRIK FRANZ SCHNEIDER GMBH+CO.KG World Headquarters Bahnhofplatz 12, 74226 Nordheim, Germany Tel: +49 7133 101-0 www.as-schneider.com

AS-SCHNEIDER ASIA-PACIFIC PTE. LTD. 970 Toa Payoh North, #02-12/14/15, Singapore 318992, Singapore Tel: +65 62 51 39 00 62 www.as-schneider.sg

AS-SCHNEIDER MIDDLE EAST FZE P.O. Box 18749, Dubai United Arab Emirates Tel: +971 4 880 85 75 www.as-schneider.ae



ARMATURENFABRIK FRANZ SCHNEIDER SRL Str. Basarabilor, Nr. 7, 100036 Ploiesti Romania Tel: +40 244 384 963 www.as-schneider.ro



AS-SCHNEIDER AMERICA, INC. 17471 Village Green Dr, Houston, TX 77040 United States of America Tel: +1 281 760 1025 www.as-schneider.com



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