

Instrumentation Products

Needle Type Globe Valves and Accessories



Introduction

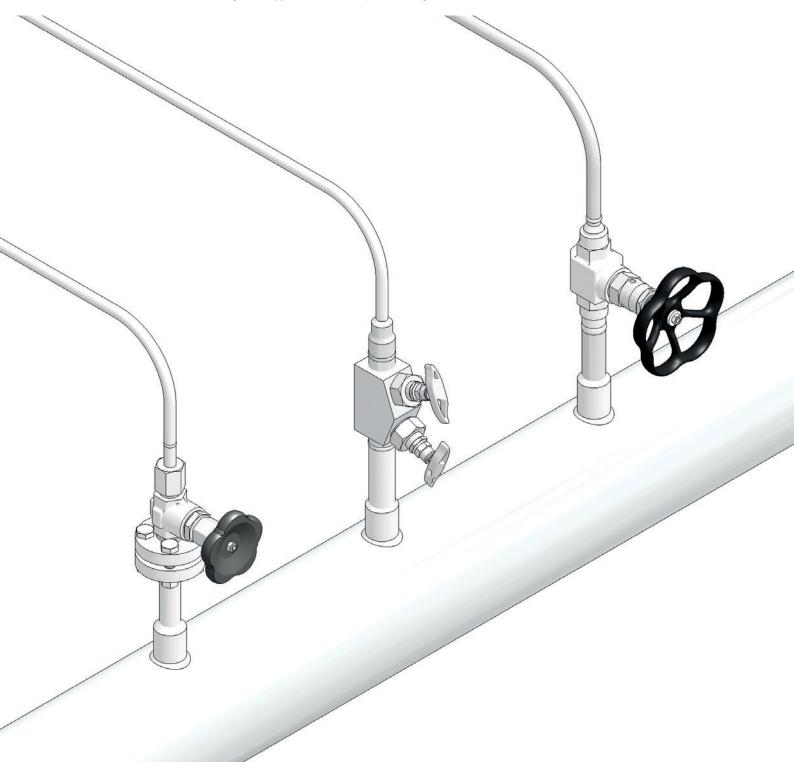
Introduction

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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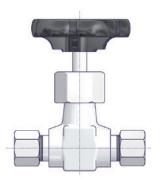
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Needle Type Globe Valves Overview

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

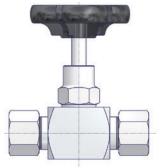


Straight Pattern

Type 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



Angle Pattern

Valve Patterns

Y-Pattern (Oblique Pattern)

Needle Type Globe Valves Overview

Type S340 / S381

Primary Isolation Valves DN 8 / Bore Size 8 mm

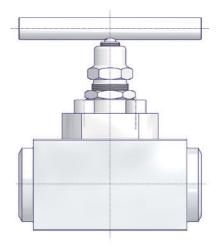
- Forged Body
- Screwed Bonnet
- Replaceable Valve Seat
- External Stem Thread



Type A2

Bolted Bonnet Needle Valves DN 20 / Bore Size 20 mm

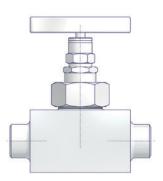
- Barstock Body
- Bolted Bonnet Design
- Integral Valve Seat
- External Stem Thread

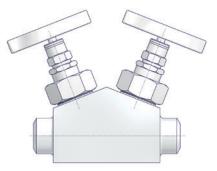


Type A1 / B1

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





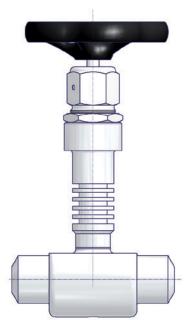
Type A1

Type B1

Type 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	LF 2				LF2		S	S						
Steel	1.0460 / A105N ^{*1}					0			S	S				
		1.4571	X6CrNiMoTi17-12-2	S 31635	316Ti	S		0	S	S				
Austenitic	316	1.4401	X5CrNiMo17-12-2	S31600	316									
Stainless	Quadruple Certified ^{*2}	1.4404	X2CrNiMo17-12-2	S 31603	316L		S	S				S	S	
Steel		1.4919	X6CrNiMo17-12-2	S31609	316H						S			
	6 Mo	1.4547	X1CrNiMoCuN20-18-7	S 31254				S						
Austenitic-	Duplex	1.4462	X2CrNiMoN22-5-3	S 31803	F51			S				0		
Ferritic Stainless	с I I	1.4410	X2CrNiMoN25-7-4	S 32750	F53			S				0		
Steel	Superduplex	1.4501	X2CrNiMoCuWN25-7-4	S 32760	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	N 04400				S				0		
Based	Alloy C-276	2.4819	NiMo 16 Cr 15 W	N 10276				S				0		
Alloys	Alloy 625	2.4856	NiCr22Mo9Nb	N 06625				S				0		
Titanium	Titanium Grade 2	3.7035	Ti-II	R 50400				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

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 maximum 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!

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: $10^{\text{-8}}\,\text{mbar}\,\text{l/s}.$

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

AS-Schneider offers 2 BAM tested options cleaned and lubricated for Oxygen Service:

PTFE Packing – Max. PN 420 (6,000 psi) - Suffix F5 Pressure-Temperature Rating: Max. 420 bar @ 60°C Max. 200°C @ 90 bar

Graphite Packing – Max. PN 250 (3,625 psi) - Suffix F4 Pressure-Temperature Rating: Max. 250 bar @ 60°C Max. 200°C @ 230 bar

Not every Valve type is available for Oxygen 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.

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

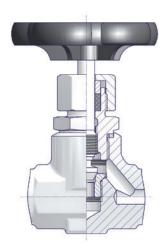
Valve Head Unit Options

Internal Stem Thread

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

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.

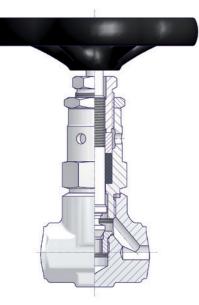


Stem Features

- 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



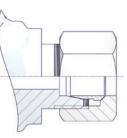
Connections

Connections

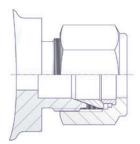
AS-Schneider is manufacturing a lot of different connections and connection combinations. In this catalogue we are showing the most popular types. On this page you will find the standard connections in detail.

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

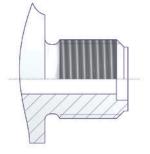


NPT Female Threads acc. to ASME B 1.20.1



Parallel Pipe Threads

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

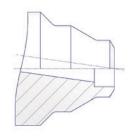


BSP Parallel Female Threads acc. to ISO 228 (e.g. G 1/2) acc. to DIN 3852-2 Form Z



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

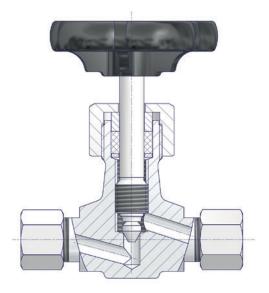




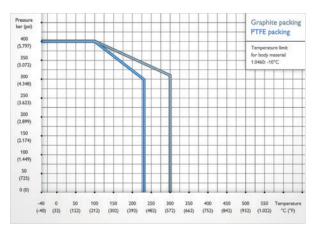
Integral Bonnet Needle Valves

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)

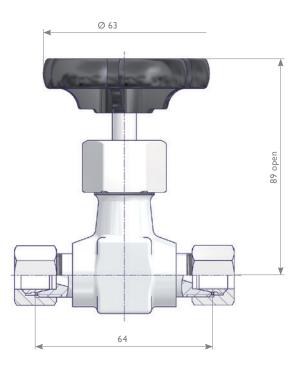


Componente	Carbon Steel	Stainless Steel		
Components	Material / Material No.			
Body	1.0460			
Valve Stem	1.4104	1.4571		
Needle Tip	1.4122			
Packing	PTFE (Optic	onal Graphite)		
Union Nut		1.4571		
Tube Fitting	Unalloyed Steel	1.4571		
Handwheel	Plastic			



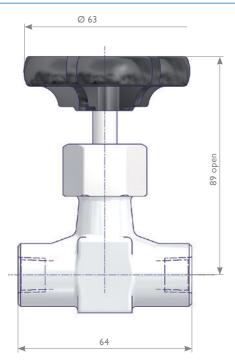
Needle Valves Type S338

Tube Fitting Connections Size S



Inlet	Outlet	Part Number			
Tube Fit	De Fitting Sizes 1.0460		erial 1.4571		
6S		\$338.03.130	\$338.03.230		
85		\$338.03.120	\$338.03.220		
1	0S	\$338.03.110	\$338.03.210		
125		\$338.03.100	\$338.03.200		

Female Threads



		Part Number			
Inlet	Outlet	Mate 1.0460	erial 1.4571		
1/4 NPT Female		\$338.08.110	\$338.08.210		
G 1/4 Female		\$338.08.115	\$338.08.215		
G 3/8 Female		\$338.08.116	\$338.08.216		

Screwed Bonnet Needle Valves for Gas Service Type N334

Features

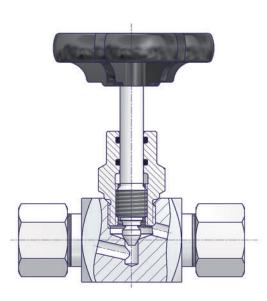
- Barstock Body DN 5 / Bore Size 5 mm
- Screwed Bonnet
- Integral Valve Seat
- Internal Stem Thread
- Stem with cold rolled surface, back seat and non-rotating needle tip
- O-Ring Stem Seal in FPM

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:

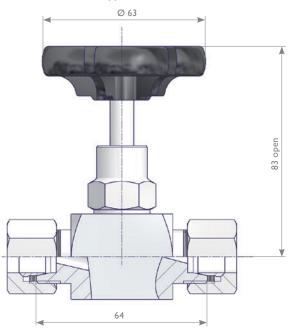
• Max. 100 bar @ -20°C up to +60°C



Components	Carbon Steel	Stainless Steel		
components	Material / Material No.			
Body	1.0460	1.4404		
Bonnet	Brass			
Valve Stem	1 440.4			
Needle Tip	1.4104			
Stem Seal	FF	M		
Union Nut	Linelloyed Steel	1.4571		
Single ferrule	Unalloyed Steel	1.4571		
Handwheel	Plastic			

Needle Valve Type N334

DVGW tested and approved

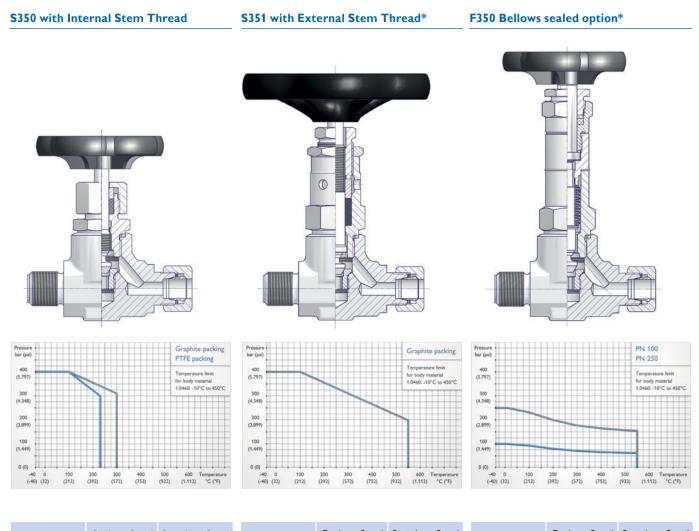


Connections	Surface Treatment	Part Number
Tube Fitting Sizes	Surface Treatment	T al t Nulliber
12L	Galvanized	N334.01.104.0083
12S	Galvanized	N334.01.114.0083

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



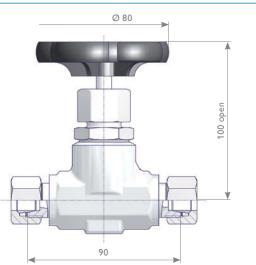
Components	Carbon Steel	Stainless Steel		
Components	Material / N	Material / Material No.		
Body	1.0460			
Bonnet	1.0501			
Valve Seat	1.4571	1.4571		
Valve Stem	1.4104			
Needle Tip	1.4122			
Packing	PTFE (optional Graphite)			
Union Nut	Unalloyed	1.4571		
Tube Fittings	Steel	1.45/1		
Handwheel	Plastic			

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	Graphite		
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	1.4571	1.4571	
Valve Seat	1.4571		
Valve Stem			
Needle Tip	Stellite		
Packing	Gra	phite	
Stem Nut	1.4122		
Union Nut	1.0501	1.4571	
Single Ferrule	1.4571		
Handwheel	Plastic		

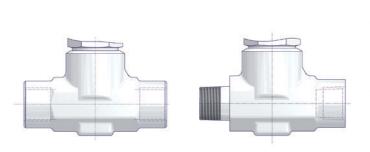
Needle Valves Type S350

Tube Fitting Connections Size S



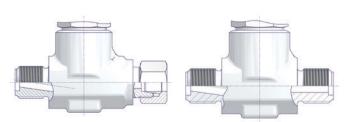
Inlet	Outlet	Material	Part Number		
Tube Fit	Tube Fitting Sizes		i al ci Nullibei		
125		1.0460	S350.01.114		
		1.4571	S350.01.214		
14S		1.0460	\$350.01.115		
1	40	1.4571	\$350.01.215		

Threaded Connections



Inlet	Outlet	Material	Part Number
G 1/2 Female		1.0460	\$350.03.104
		1.4571	\$350.03.204
1/2 NID	C Comolo	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
	1/2 INFI Female	1.4571	\$350.07.224

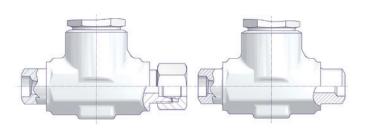
Male Threads DIN 19207 / Tube Fitting Connection*



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

* Max. operating pressure PN 160.

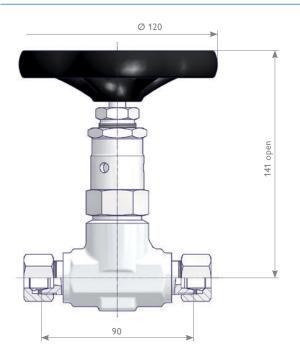
Weld Ends / Tube Fitting Connection



Inlet	Outlet	Material	Part Number
Weld End	Tube Fitting	1.0460	\$350.05.130
Ø 21.3 x Ø 12.2	Ŭ	1.4571	\$350.05.230
Weld End Ø 21.3 × Ø 12.2		1.0460	\$350.05.100
		1.4571	\$350.05.200

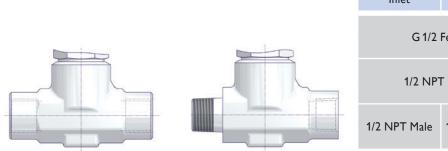
Needle Valves Type S351

Tube Fitting Connections Size S



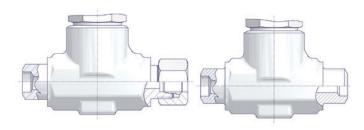
Inlet	Outlet	Material	Part Number	
Tube Fitting Size		T lucer lui	i al ci valibei	
1	400		S351.01.114	
12S		1.4571	\$351.01.214	
1	14S		S351.01.115	
	40	1.4571	S351.01.215	

Threaded Connections



Inlet	Outlet	Material	Part Number
		1.0460	\$351.03.104
G 1/2	G 1/2 Female		\$351.03.204
1/2 NPT Female		1.0460	\$351.03.124
		1.4571	\$351.03.224
1/2 NPT Male		1.0460	S351.07.124
1/2 INPT Male 1/2 INP	1/2 NPT Female	1.4571	S351.07.224

Weld Ends / Tube Fitting Connection



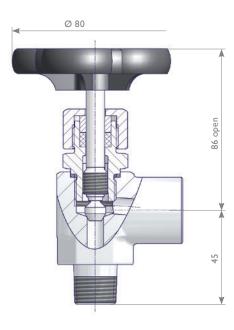
Inlet	Outlet	Material	Part Number
Weld End	Tube Fitting	1.0460	S351.05.130
Ø 21.3 x Ø 12.2	U	1.4571	\$351.05.230
Weld End Ø 21.3 × Ø 12.2		1.0460	\$351.05.100
		1.4571	\$351.05.200

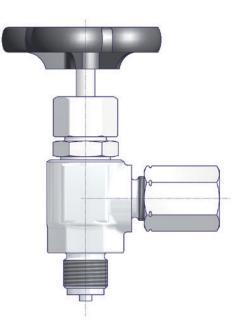
Angle Needle Valves Type S360

Features

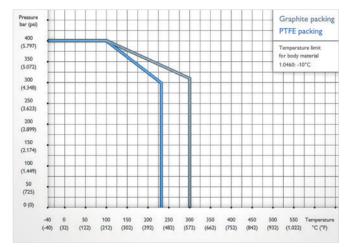
- Forged Body DN 8 / Bore Size 8 mm
- Screwed Bonnet
- Integral Valve Seat
- Stem with cold rolled surface, back seat and non-rotating needle tip

Please contact the factory for Your Angle Pattern Needle Valve.





Componente	Carbon Steel	Stainless Steel			
Components	Material / Material No.				
Body	1.0460				
Bonnet	1.0501	4 4574			
Valve Stem	1.4104	1.4571			
Needle Tip	1.4122				
Packing	PTFE (Optional Graphite)				
Union Nut		1.4571			
Tube Fitting	Unalloyed Steel	1,7571			
Handwheel	Plastic				

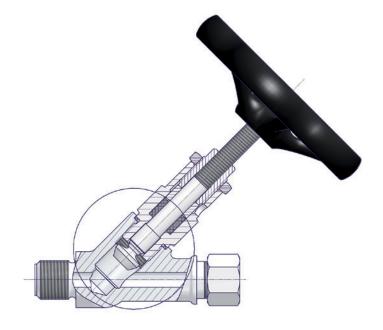


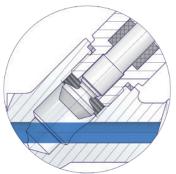
Y-Pattern Needle Valves Type S371

Features

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

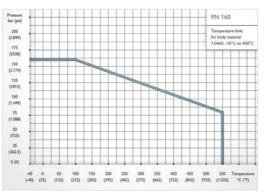
Please contact the factory for Your Y-Pattern Needle Valve.





Straight-Through Design → Valve is fully roddable

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

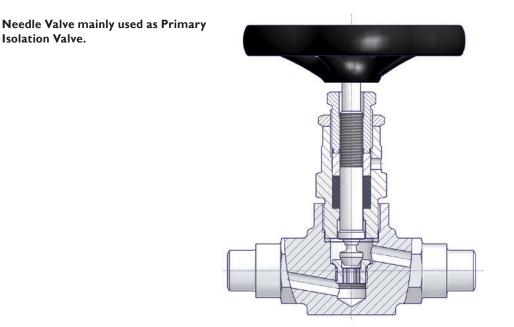


For working pressures exceeding 160 bar please contact the factory.

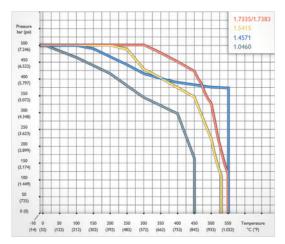
Screwed Bonnet Needle Valves Type S340 / S381

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



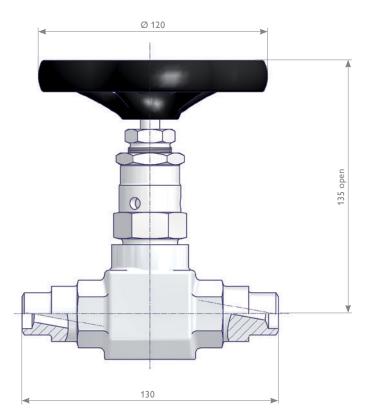
Components	Carbon Steel Heat Resista		ant Steel	Stainless Steel
Components		Material / Ma	terial No.	
Body	1.0460	1.7335 / 1.5415	1.7383	
Bonnet	1.7709			
Valve Seat	1.4571		1.4981	1.4571
Valve Stem	1.4021		1.4571	
Needle Tip	1.4122		Stellite	
Packing	Graphite			
Stem Nut	Brass		1.4	4301
Handwheel	Unalloyed Steel			



The respective maximum allowable pressure 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				
	Connections		Material			
Inlet	Outlet	1.0460	1.7335	1.5415	1.7383	1.4571
Tube Butt Weld	d End Ø 14 x 2.5	S340.11.112.04	S340.11.114.04	S340.11.600.11	S340.16.112.04	\$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	Pipe Butt Weld End Ø 21.3 × 2.9		\$340.11.136.32	\$340.11.636.32	\$340.16.136.32	\$340.11.236.32
Pipe Butt Weld End Ø 21.3 x 3.2	Tube Butt Weld End Ø 14 x 2.5	S340.11.135.33	\$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	\$340.11.135.34	\$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 7.4	Tube Butt Weld End Ø 14 x 2.5	S340.11.135.40	\$340.11.136.40	\$340.11.636.40	\$340.16.136.40	\$340.11.236.40
Pipe Socket \	Weld End 1/2"	S381.40.114.01	S381.40.614.01	S381.40.714.01	S381.40.514.01	\$381.40.214.01

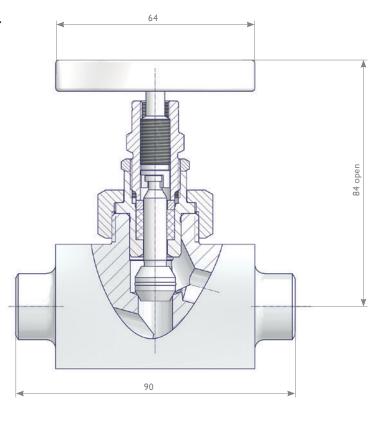
Union Bonnet Needle Valves Type A1

Features

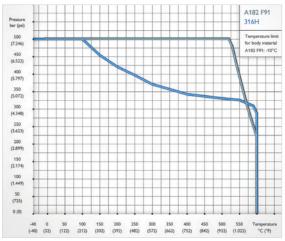
- Barstock Body DN 11 / Bore Size 11 mm
- Union Bonnet
- Integral Valve Seat
- External Stem Thread
- Valve Stem with cold rolled threads
- Non-rotating Needle and back seat design

Options see Ordering Information on Page 23.

Union Bonnet Needle Valves are designed for Severe Service.



Componente	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).

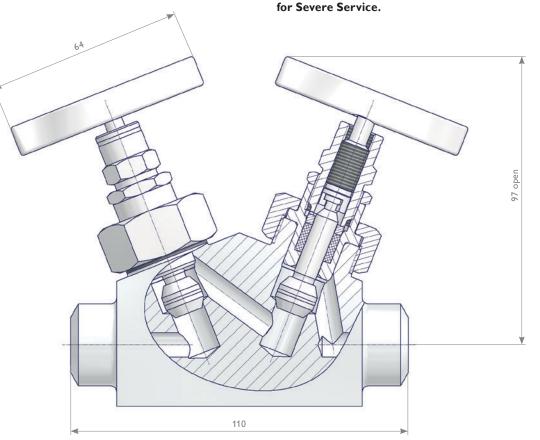
The respective maximum allowable pressure depends on the tube / pipe connection used. For further information please contact the factory.

* 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.

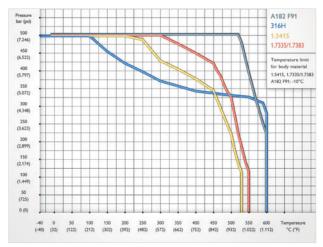
Features

- 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.



Components	Heat Resistant Steel			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	Options see Ordering Information			nation	



Union Bonnet Tandem Valves are designed

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

The respective maximum allowable pressure depends on the tube / pipe connection used. For further information please contact the factory.

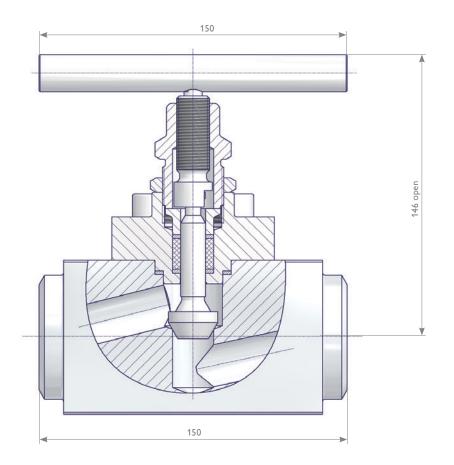
* Welded connections in material 1.4903 / F91 / 1.7335 / 1.7380 require post weld heat treatment (PWHT) at around 700 - 750°C. The valve head unit must be removed prior to the heat treatment to avoid damages. See the installation, operation and maintenance manual for instructions. We recommend to order 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

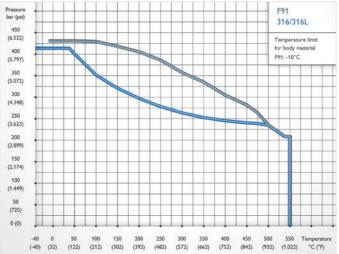
Features

- 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).

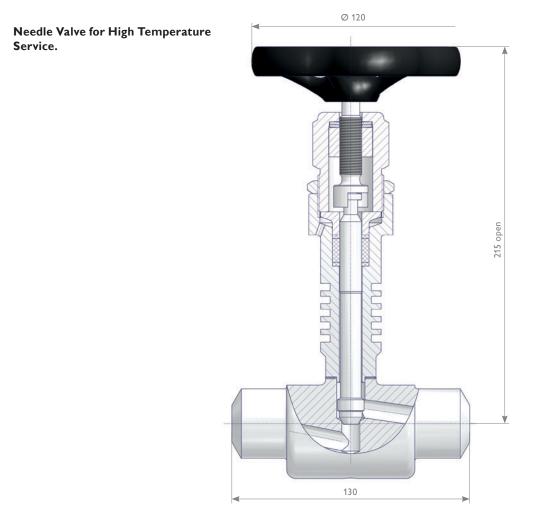
The respective maximum allowable pressure depends on the tube / pipe connection used. For further information please contact the factory.

Welded Bonnet Needle Valves Type A4

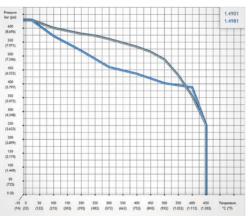
Features

- 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
- Non-rotating Stem with cold rolled surface and back seat design

Options see Ordering Information on Page 23.



Components	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 Ordering Information					



Graphite Packing only.

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

Ordering Information

						- 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
						. 1	В	1	В	-	A	4	Р	A	4	Р	-	S	A	K	
	Valve Type																				
A1 B1	Union Bonnet Need Union Bonnet Tande																				
A2	Bolted Bonnet Need																				
A4	Welded Bonnet Nee	edle Valve DN	V 10 / Bc	ore Size 10 mm (Graph	nite Packing on	nly.)															
	Packing																				
A B	PTFE Graphite																				
W	Carbon-Filled PTFE	– TA-Luft																			
	Inlet Connection																				
А	Butt Weld End																				
D H	Socket Weld End Twin Ferrule Tube F	itting																			
L	Female Thread																				
	Pipe / Tube			Tube Fitting			Thre	ead													
4	1/2" pipe		R	Rotarex		Ν	NPT														
6 8	3/4" pipe*1 1" pipe*1		S	Swagelok																	
С	10 mm																				
D	12 mm																				
E F	14 mm 16 mm																				
G	18 mm																				
K	25 mm*1																				
T V	1" tube ^{*1} 1 1/4" tube ^{*1}																				
x	1 1/2" tube*1+2																				
	Wall Thickness P	ipes / Tubes		Tube O.D.			Thre	ead Si	ze												
2	2.0 mm		4	12		4	1/2"														
3 4	3.2 mm 4.0 mm		5 6	14 16																	
8	2.6 mm																				
A D	3.6 mm 5.0 mm																				
E	5.5 mm																				
G	7.0 mm																				
N P	Schedule 40 Schedule 80																				
Q	Schedule 160																				
А	Socket Weld																				
	Outlet Connectio	$n \rightarrow see InI$	et Con	nection Ordering In	nformation S	pecifi	cs														
	Body Material																				
	A1	B1		A2	A4																
R S	– 316H	1.7335 316/316L		- 316/316L	-																
U	-	1.7380		-	-																
W	F91	F91		F91	-																
Q X	-	1.5415 -		-	- 1.4981																
Y	_	-		-	1.4901																
	Vent Connection																				
А	Without																				
	Operation Option	15																			
В	Handwheel Unalloye	ed Steel																			
К	T Bar Handle																				
	Additional Option	ns																			
٧	Pipe Extension																				
^{k1} Sock	et Weld End for A2	Needle Valv	e only																		

Socket weld Elid for A2 Needle valve only.

*² Butt Weld End not available for A1 Needle Valve.

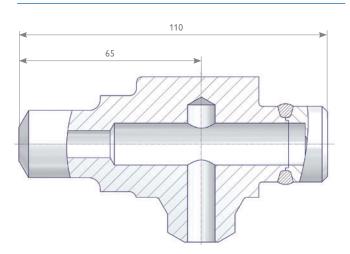
Product Description

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.

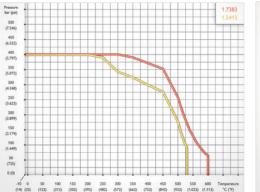
Pots with more outlet ports for applications where foreign material should be trapped and drained preventing damage of the manifolds and transmitters are also available. Please contact the factory. For details see also DIN 19211.

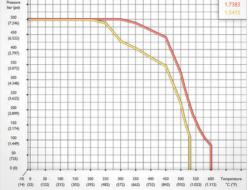
Condensate Pots for Small Volume Displacements



Optional Condensate Pot / Primary Isolation Valve Assembly -Factory Welded



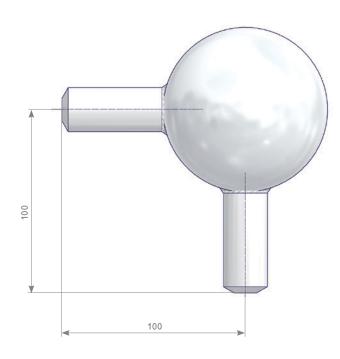


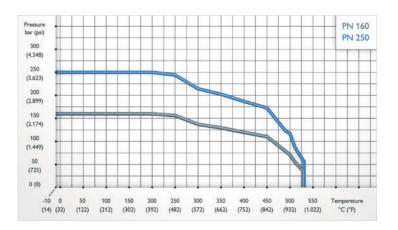


Weld End Connections			Part Number				
Weld Liid V	Material						
			1.5415	1.7383			
Inlet	Outlet	PN	Volume (approx.)				
			20 cm ³	20 cm ³			
Pipe Butt Weld	400	S007.51.603.42					
Pipe Butt Weld	500 S007.51.600.45						
Pipe Butt Weld	500	\$007.51.600.26	\$007.51.500.26				

Condensate Pots

Condensate Pots for Larger Volume Displacements





Weld End C	oppections	Part Number					
Weld Lifd C	onnections	Material					
	1.5415						
Inlet	Outlet	PN	Volume				
			250 cm ³	700 cm ³			
Pipe Butt Weld End Ø 21.3 x 6.3			\$007.51.653.05				
Pipe Butt Weld End Ø 33.7 x 4.5	Pipe Butt Weld End Ø 24 x 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				

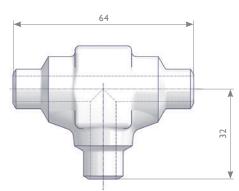
Weld Fittings I Tees, Reducers, Connectors

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.

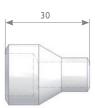
If you don't find your option please contact the factory.

Tees



	Part Number					
Weld End Connections		Material				
	1.5415	1.7335	1.4571			
Pipe Butt Weld End Ø 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 14			\$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 \emptyset 21.3 x 3.2	Tube Butt Weld End Ø 12 x 1.5		\$006.40.230.20			
Pipe Butt Weld End Ø 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	S006.40.632.84	\$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		\$006.40.220			
Weld End Ø 21.3 x Ø 14.25	\$006.40.120.04	\$006.40.220.04			

Threaded Pipe Ends acc. to DIN 19207

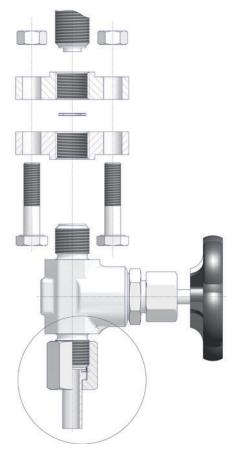
Product Description

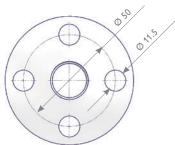
DIN 19207 is defining 2 different Threaded Connections (Type V and Type R) to be used either for a Flanged Connection with Threaded Flanges or a Nipple Connection. For more details see DIN 19207. The max. operating pressure for this connection is defined at 160 bar.

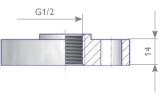
Valves with DIN 19207 connections see Page 13, condensate pots see Page 25.

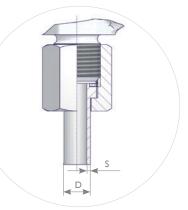
Flange Connection I Accessory Kit

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	\$006.39.200.02









Nipple Connection I Accessory Kit

Unio	Union Nut		Nippl	e	Grooved Gasket	Accessory Kit	
Thread	Material	D	s Material		Material	Part Number	
		1.5415		S007.45.103.10			
6.4/2	1.4571	12	1.65	1.4571	4 4574	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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