Siphons

Part No. SSP545-ADC

Part No. SSP556-ADC

Part No. SSP595-ADC

Description

Siphons, also called pigtails, are used to protect pressure gauges, transmitters, transducers, and switches from the effect of high-temperature pressure media such as steam. Inside the coil or pigtail portion of the siphon, the pressure media forms condensate that is lower in temperature than the media. The condensate prevents the higher temperature media from coming in direct contact with the pressure instrument. When the siphon is first installed, it should be filled with water or any other suitable separating liquid.

Features

- Ideal for protecting pressure instruments from hot media temperatures in steam pressure applications
- Available in brass, carbon steel, or stainless steel for compatibility with different media
- 1/4in male NPT process connections
- 5-year warranty

Example assembly of SSP series siphon, NVA series isolation valve, and G25 series pressure gauge. The female coupling is not available from AutomationDirect.

Siphon Selection

Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Drawing Link
SSP545-ADC	Winters siphon, brass body, 1/4in male NPT x 1/4in male NPT.	1	0.45	$12.00	PDF
SSP556-ADC	Winters siphon, carbon steel body, 1/4in male NPT x 1/4in male NPT.	1	0.45	$8.00	PDF
SSP595-ADC	Winters siphon, stainless steel body, 1/4in male NPT x 1/4in male NPT.	1	0.45	$39.50	PDF

Siphon Specifications

Material*	Schedule 40 brass, schedule 80 carbon steel or schedule 80 304 SS (all types seamless)
Style	180° coil
Connection	1/4in male NPT x 1/4in male NPT
Maximum Operating Pressure	Schedule 40: Brass, 500 psi at 680°F (360°C) Schedule 80: Carbon steel, 304 SS, 1,650 psi at 630°F (332°C)
Maximum Operating Temperature	Schedule 40: Brass, 680°F (360°C) Schedule 80: Carbon steel, 304 SS, 630°F (332°C) Recommended for applications above 100°F (37°C)
Warning (brass siphons only)	**WARNING:** This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*

Click on the thumbnail or go to https://www.automationdirect.com/VID-PC-0005 for a short video Winters products.

Pressure Snubbers

Description

Pressure Snubbers are used to protect pressure measurement instruments such as gauges, transmitters, transducers and switches by suppressing the effect of pressure pulsations and spikes commonly found in harsh applications involving reciprocating pumps and compressors, hydraulic presses or fluid power systems. The SSN series of pressure snubbers incorporates a sintered, porous 316 stainless steel snubbing element with a large surface area to slow rapid pressure changes and surges, thereby improving readability and preventing wear and damage to delicate instrument mechanisms. These pressure snubbers are available with brass or stainless steel bodies and porous snubbing elements designed for water, air or heavy oil viscosity applications.

Part No. SSN515-ADC

Part No. SSN518-ADC

Example assembly of SSN series snubber and G25 series pressure gauge.

Features

- Incorporates a sintered, porous 316 stainless steel snubbing element with a large surface area to ensure long term effectiveness
- Available in the three standard viscosity classifications of heavy oil, water and air
- Brass or stainless steel bodies depending upon pressure media and operating pressure
- 1/4in male NPT x 1/4in female NPT process connections
- ASME B40.100 compliant
- 5-year warranty

Pressure Snubber Selection

Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Drawing Link
SSN515-ADC	Winters water snubber, porous brass element, brass body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$10.50	PDF
SSN516-ADC	Winters air snubber, porous brass element, brass body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$10.50	PDF
SSN517-ADC	Winters heavy oil snubber, porous brass element, brass body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$10.50	PDF
SSN518-ADC	Winters water snubber, porous stainless steel element, stainless steel body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$13.50	PDF
SSN519-ADC	Winters air snubber, porous stainless steel element, stainless steel body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$18.00	PDF
SSN520-ADC	Winters heavy oil snubber, porous stainless steel element, stainless steel body, 1/4in male NPT x 1/4in female NPT.	1	0.17	$17.00	PDF

Pressure Snubber Specifications

Body*	316 Stainless Steel	Brass
Connection**	1/4in male NPT x 1/4in female NPT process connections	
Operating Temperature	-320°F to 1,500°F (-195°C to 815°C)	-65°F to 650°F (-53°C to 343°C)
Operating Pressure	Maximum 20,000 psi (137,900 kPa)	Maximum 10,000 psi (68,950 kPa)
Burst Pressure	60,000 psi (413,700 kPa)	30,000 psi (206,850 kPa)
Snubbing Element	Sintered, porous type 316 SS	Sintered, porous brass
Retainer	300 series SS	300 series SS
Warning (brass internals only)	N/A	**WARNING:** This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*
*** Snubbers are uni-directional. Sensor must be installed into the snubbers female connection.*

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Adjustable Pressure Snubbers

Description

Adjustable pressure snubbers are used to protect pressure measurement instruments such as gauges, transmitters, transducers and switches by suppressing the effect of pressure pulsations and spikes commonly found in harsh applications involving reciprocating pumps and compressors, hydraulic presses or fluid power systems. The SAS series of pressure snubbers incorporates an adjustable stem snubbing element to slow rapid pressure changes and surges, thereby improving readability and preventing wear and damage to delicate instrument mechanisms. These pressure snubbers are available with brass or stainless steel bodies and adjustable stem snubbing element to meet a wide variety of media viscosity applications.

Part No. SAS540-ADC

Part No. SAS542-ADC

Features

- Adjustable stem snubbing element to meet a wide variety of media viscosity applications.
- Brass or stainless steel bodies depending upon pressure media
- 1/4in male NPT x 1/4in female NPT process connections
- ASME B40.100 compliant
- 5-year warranty

Example assembly of SAS series adjustable snubber and G25 series pressure gauge.

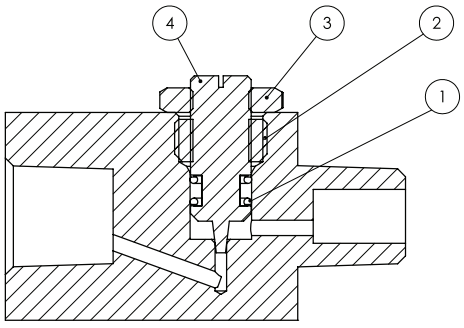
Adjustable Pressure Snubber Selection

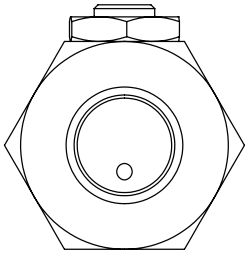
Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Drawing Link
SAS540-ADC	Winters snubber, adjustable brass stem and PTFE seal element, brass body, 1/4in male NPT x 1/4in female NPT.	1	1.10	$26.50	PDF
SAS542-ADC	Winters snubber, adjustable stainless steel stem and PTFE seal element, stainless steel body, 1/4in male NPT x 1/4in female NPT.	1	1.10	$42.00	PDF

Adjustable Pressure Snubber Specifications

Body*		316 Stainless Steel	Brass
Connection**		1/4in male NPT x 1/4in female NPT process connections	
Operating Temperature		-40°F to 248°F (-40°C to 120°C)	
Operating Pressure		6,000 psi maximum	
Materials (reference chart below)	1 - Gland Washer	316 SS	316 SS
	2 - Gland Seal	PTFE (Polytetrafluoroethylene)/ Graphite	PTFE (Polytetrafluoroethylene)/Graphite
	3 - Gland	316 SS	Brass
	4 - Stem	316 SS	Brass
Warning		N/A	**WARNING:** This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*
*** Snubbers are uni-directional. Sensor must be installed into the snubbers female connection.*





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Manual Isolation and Throttling Needle Valves

Description

Manual isolation and throttling needle valves are commonly used to block and isolate pressure instruments such as gauges, transmitters, transducers and switches from the sensed media pressure allowing for quick and easy removal and maintenance of the instruments without shutting down the process. The one-piece, weld-free stainless steel body provides strength, safety, and corrosion resistance for a wide variety of process fluids and gases. Available in either a soft seat or hard seat version, these valves provide leak-tight shut-off. Needle valves are also used in flow-metering applications, especially when a constant, calibrated, low flow rate must be maintained. The needle shaped plunger, small orifice and tapered seat allow for precise manual regulation of flow rate.

Part No. NVA1000-ADC

Example assembly of NVA series isolation valve and G25 series pressure gauge.

Features

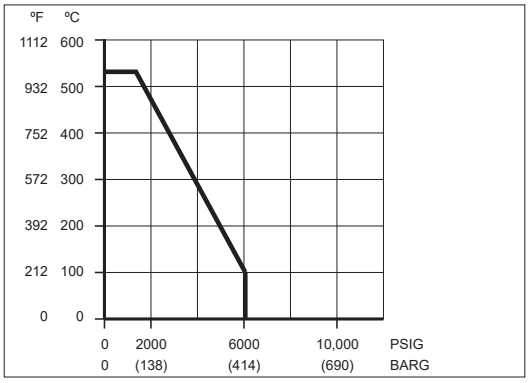
- Excellent flow regulation and leak tight
- The one-piece body construction (no welding) provides strength, safety and corrosion resistance
- "Slow opening" prevents sudden pressure surge and instrument damage
- Materials include carbon steel and stainless steel
- Available in Soft and Hard Seat (6,000 psi)
- ASME B1.20.1 compliant
- 5-year warranty

Manual Isolation and Throttling Needle Valve Selection

Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Drawing Link
NVA1000-ADC	Winters manual isolation and throttling needle valve, straight body soft seat, single handle, stainless steel body, 1/4in male NPT inlet(s), 1/4in female NPT outlet(s).	1	1.10	$45.00	PDF
NVA2000-ADC	Winters manual isolation and throttling needle valve, straight body hard seat, single handle, stainless steel body, 1/4in male NPT inlet(s), 1/4in female NPT outlet(s).	1	1.10	$48.00	PDF

Manual Isolation and Throttling Needle Valve Specifications

Connection	1/4in male NPT x 1/4in female NPT process connections
Maximum Pressure	6,000 psi @ 212°F (100°C)
Operating Temperature	32°F to 977°F (0°C to 525°C)



The maximum pressure and temperature are directly related for the NVA series valves. This derating chart should be used to find the maximum pressure allowed at the operating temperature.

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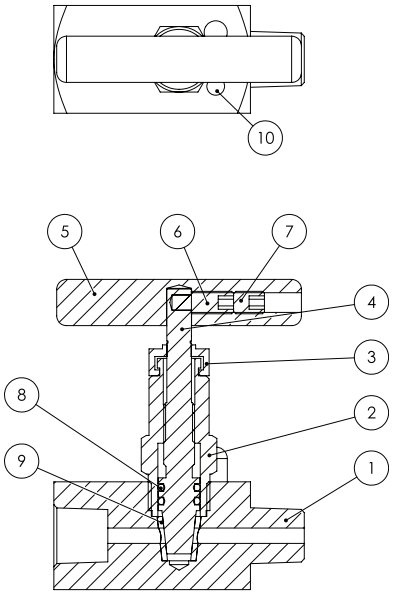
Manual Isolation and Throttling Needle Valves

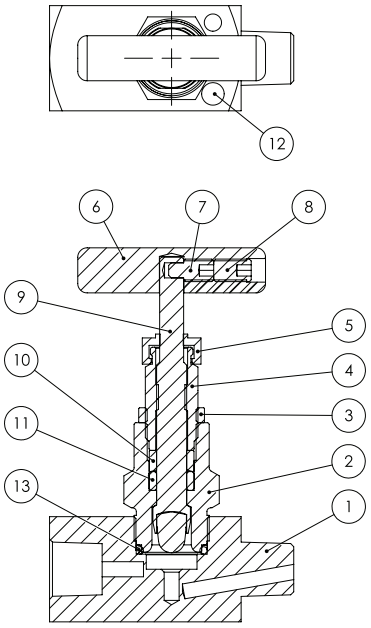
Soft Seat Manual Isolation and Throttling Needle Valve Materials		
Description	Component Number	Component Material
Body*	1	316 SS
Bonnet	2	316 SS
Dustcap	3	Nylon
Needle / Needle Tip	4	316 SS
Handle	5	304 SS
Screw	6	304 SS
Fastening Screw	7	304 SS
O-ring	8	FKM (Viton®)
Seat	9	Delrin
Slotted Spring Pin	10	304 SS

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*



Hard Seat Manual Isolation and Throttling Needle Valve Materials		
	Component Number	Component Material
Body*	1	316 SS
Bonnet	2	316 SS
Adapter Locknut	3	304 SS
Adapter	4	316 SS
Dustcap	5	Nylon
Handle	6	304 SS
Screw	7	304 SS
Fastening Screw	8	304 SS
Needle / Needle Tip	9	316 SS
Gland Washer	10	304 SS
Gland Packing	11	PTFE (Polytetrafluoroethylene)/ Graphite
Dwell Pin	12	304 SS
Gland Packing	13	PTFE/Graphite

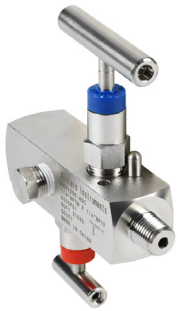
** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*



Manual Block and Bleed Needle Valves

Description

Manual block and bleed needle valves are commonly used to block and isolate pressure instruments such as gauges, transmitters, transducers and switches from the sensed media pressure. They allow for easy removal and maintenance of the instruments without shutting down the process. Additionally, the 1/4" NPT bleed port allows pressure in the sensed line to be bled off without disturbing the permanent piping installation. The one-piece, weld-free stainless steel body provides strength, safety, and corrosion resistance for a wide variety of process fluids and gases. Available in either a soft seat or hard seat version, these valves provide leak-tight shut-off. Needle valves are also used in flow-metering applications, especially when a constant, calibrated, low flow rate must be maintained. The needle-shaped plunger, small orifice and tapered seat allow for precise manual regulation of flow rate.



Part No. BBV1200-ADC

Example assembly of BBV series block and bleed valve and G25 series pressure gauge.

Features

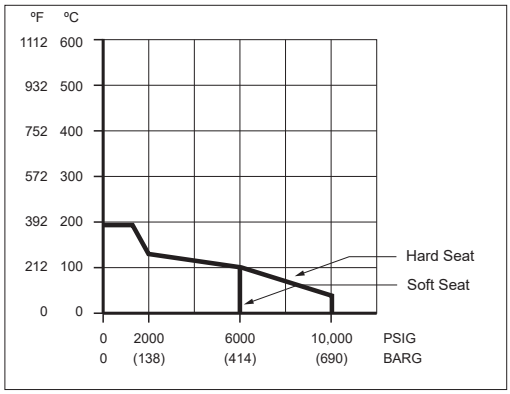
- The one-piece body construction (no welding) provides strength and corrosion resistance
- Block & bleed design allows pressure to be bled off without disturbing the permanent piping installation, allowing quick and easy removal or replacement of instruments
- Available in Soft Seat (6,000 psi) and Hard Seat (10,000 psi)
- All stems are 316 stainless steel
- 5-year warranty

Manual Block and Bleed Needle Valve Selection

Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Drawing Link
BBV1200-ADC	Winters manual block and bleed needle valve, straight body soft seat, double handles, stainless steel body, 1/4in male NPT inlet(s), 1/4in female NPT outlet(s).	1	2.20	$111.00	PDF
BBV3200-ADC	Winters manual block and bleed needle valve, straight body hard seat, double handles, stainless steel body, 1/4in male NPT inlet(s), 1/4in female NPT outlet(s).	1	2.20	$85.00	PDF

Manual Isolation and Throttling Needle Valve Specifications

Connection	1/4in male NPT x 1/4in female NPT process connections
Maximum Pressure	Soft Seat: 6,000 psi @ 212°F (100°C) Hard Seat: 10,000 psi @ 104°F (40°C)
Operating Temperature	32°F to 383°F (0°C to 195°C)



The maximum pressure and temperature are directly related for the BBV series valves. This derating chart should be used to find the maximum pressure allowed at the operating temperature.

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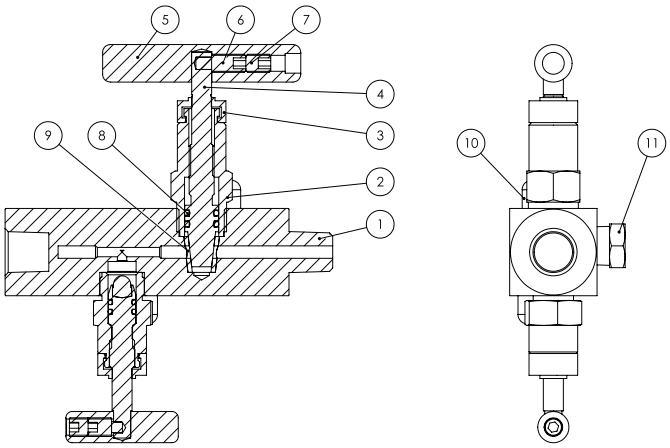
Manual Block and Bleed Needle Valves

Soft Seat Manual Isolation and Throttling Needle Valve Materials		
Description	Component Number	Component Material
Body*	1	316 SS
Bonnet	2	316 SS
Dustcap	3	Nylon
Needle / Needle Tip	4	316 SS
Handle	5	304 SS
Screw	6	304 SS
Fastening Screw	7	304 SS
O-rings	8	FKM (Viton®)
Seat	9	Delrin
Dwell Pin	10	304 SS
Vent Plug	11	316 SS

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*



Hard Seat Manual Isolation and Throttling Needle Valve Materials		
Description	Component Number	Component Material
Body*	1	316 SS
Bonnet	2	316 SS
Dustcap	3	Nylon
Needle / Needle Tip	4	316 SS
Handle	5	304 SS
Screw	6	304 SS
Fastening Screw	7	304 SS
O-rings	8	FKM (Viton®)
Dwell Pin	9	304 SS
Vent Plug	10	316 SS

** To avoid the possibility of galvanic corrosion, it is recommended not to use dissimilar metals together.*