SVA: STERILE ACCESS BLOCK VALVE

Barstock Single Block Valve with Single or Double Sterile Access, Manual or Pneumatically Actuated



Available Sizes:

- » Run Connections: 1/2" 4" (DN15 DN100)
- » Access Port Connection: 1/2" 4" (DN15 DN100); drop connection must be < = the run connection</p>

Connection Type:

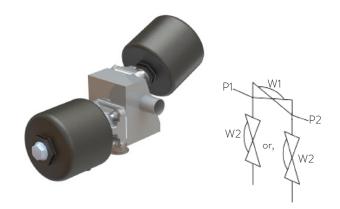
- » ASME BPE Tri-clamp, Extended Tube End standard. Additional connection types available as options upon request
- » Sample port configurations available as special options

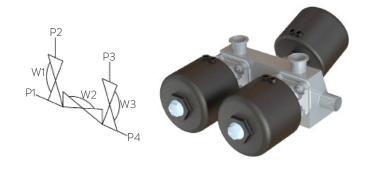
Materials:

- » Standard: Barstock, ASME SA479 316L (UNS 31603) or EN 10272:2000 GR 1.4435
- » Optional: AL-6XN®, Hastelloy® C-22 and others readily available

Surface Finish:

- » Wetted Interior:
 - Standard:
 - ASME BPE SF1, 20 Ra μin (0,5 Ra μm)
 - · ASME BPE SF5, 20 Ra µin (0,5 Ra µm) Electropolish.
 - Optional:
 - ASME BPE SF4, 15 Ra µin (0,4 Ra µm) Electropolish. Better finish upon request
- » Exterior:
 - Standard: 40 Ra µin (1,0 Ra µm) and better as option
 - Optional: 20 Ra μin (0,5 Ra μm) and better upon request





APPLICATIONS

Single Block Valve with Single or Double Sterile Access valves for manual on/off or Air Actuated Flow Control for Transfer, Diversion or Sample of Drug Process Additives, WFI and other critical system fluids

- » Upstream:
 - Bioreactor/Fermenter: For sampling or transfer of critical process fluids, inputs or WFI upstream of, and prior to opening the main valve
- » Downstream:
 - For sampling or transfer of critical process fluids, buffers, or WFI upstream of and prior to, opening the main valve in the following areas:
 - Separation
 - Filtration
 - · Chromatography
 - Formulation
 - Fill Finish
- » Buffer and Media Prep:
 - For sampling or transfer of critical process fluids, buffers or WFI upstream of, and prior to opening the main valve

^{*} See last 2 pages of this data sheet for GENERAL FEATURES, SPECIFICATIONS and DOCUMENTATION supplied regarding all of our diaphragm valves

BONNET / ACTUATOR SPECIFICATIONS

Manual Bonnet Assembly:

» Available for sizes: 1/2" - 4" (DN15 - DN100)

» Closing Stop: adjustable

» Bright visual position indicator

» Options: contact factory for proximity switches, locking devices and stroke limiter

Bonnet Materials

» Bonnet: electropolished Stainless Steel

» Compressor: Stainless Steel

» Insert: brass

» Thrust Washer: PTFE

» Compressor Pin: Stainless Steel

» Indicator: Polyolefin

» Stem: Stainless Steel

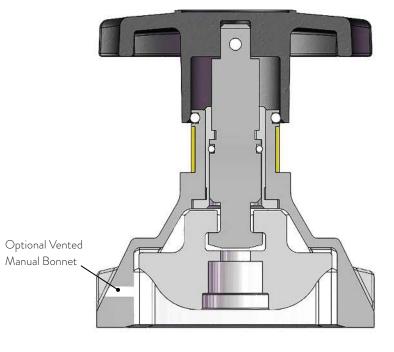
» Handwheel: PPS (1/4" - 2") (DN8 - DN50); Stainless Steel

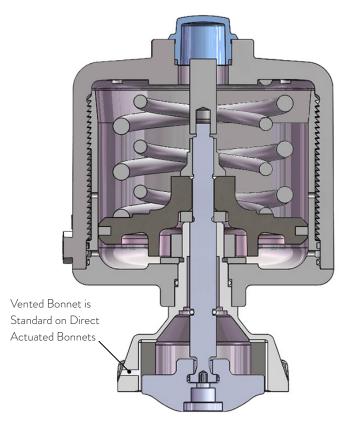
(2-1/2" - 4") (DN65 - DN100)

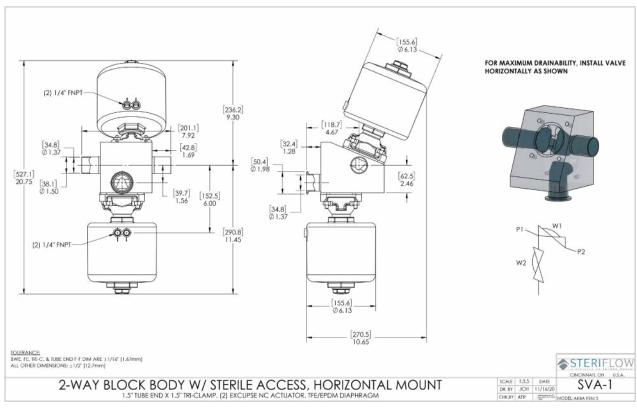
Air Actuated Bonnets:

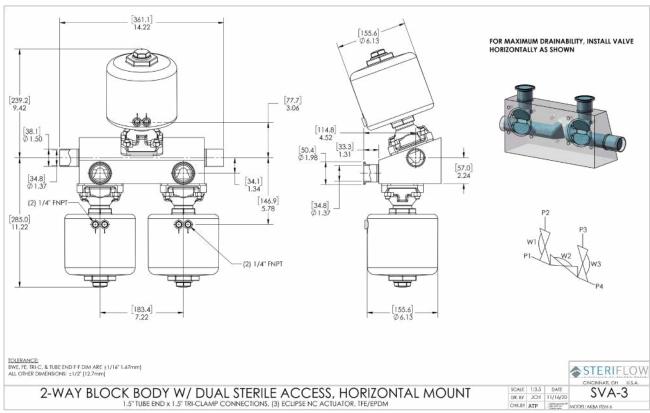
» Available for sizes: 1/2" - 2" (DN15 - DN50) standard;3" & 4" (DN80 & DN100) optional

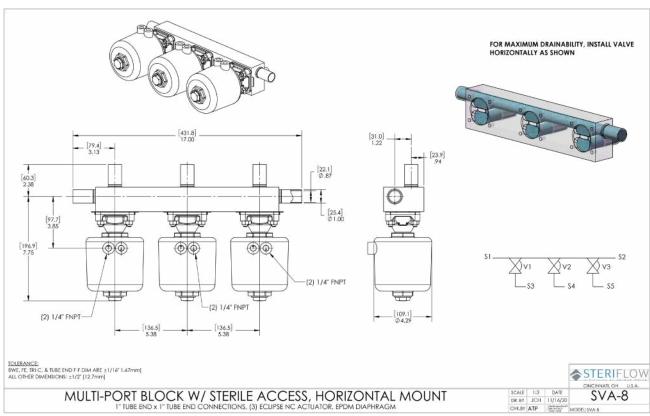
- » Air Actuator Materials: Polyamide, Stainless Steel, Stainless Steel base standard for all configurations
- » Actuator Seal: Actuator springs and seals can be replaced without exposing process
- » Orientation: Swivel feature allows 360° orientation of air inlet
- » Air Connections: NPT Stainless Steel base standard for all configurations
- » Function: Change from Normally Open or Normally Closed by inverting the actuator housing
- » Control System Interface: Available with optional switch packages for on/off control or with positioners for flow control and modulation

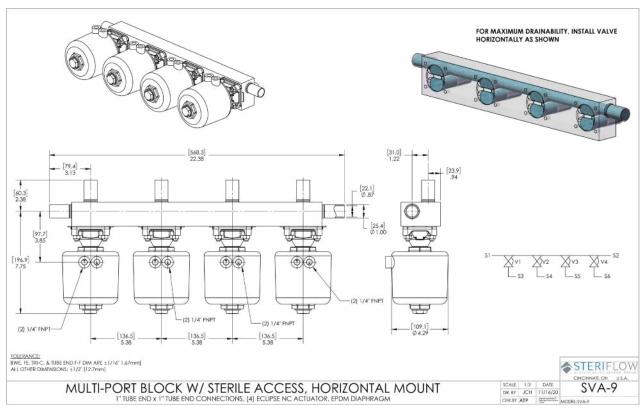


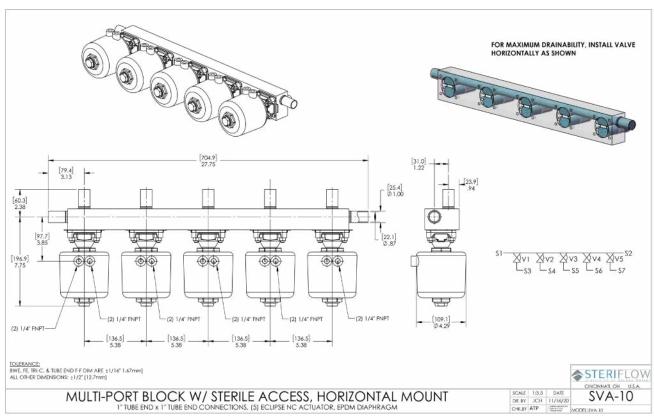


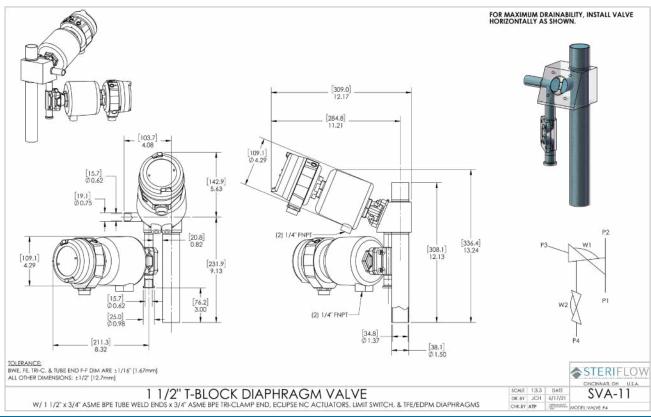


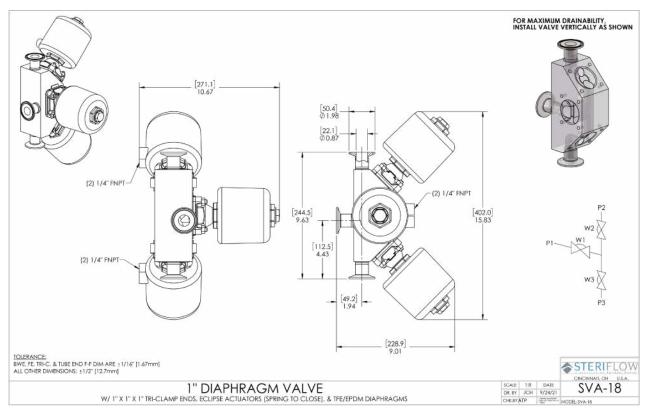


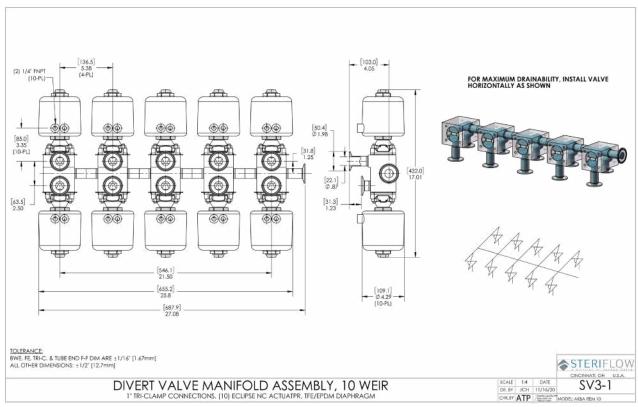


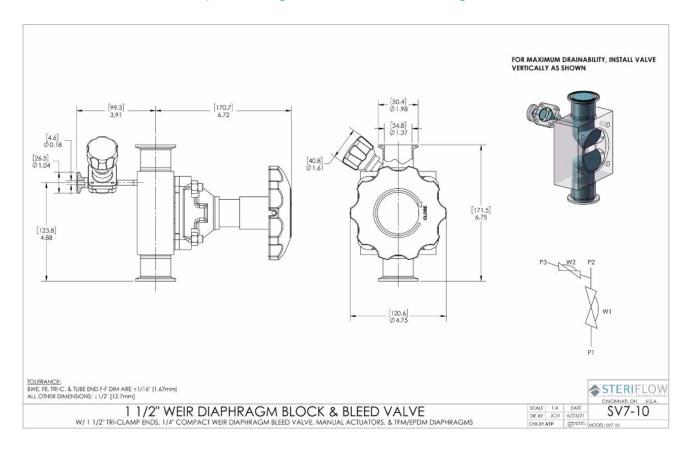












SANITARY DIAPHRAGM VALVES

Manual or Air Actuated Forged 2-way or Cast 2-way, Ported and Tandem valves. Barstock Zero Static T-Block, Point of Use T-Block, Divert Tank Bottom and Custom Block Body valves

FEATURES

- » Body & Trim Material: traceable ASME and DIN grade of 316L and Super-Austenitic Stainless Steel and Super Alloys readily available
- » Size Range: 1/4" 4" (DN8 DN100)
- » Manual or Air Actuated
- » Surface Finish:
 - Wetted Interior: ASME BBE SF5 20 Ra μin (0.5 Ra μm). Electropolish standard, SF4 and better finish available
 - · Exterior: See individual model specifications
- » Diaphragm: All FDA, FDA/USP <88>, <87> Class VI, ADI-TSE Free
 - TFM/EPDM Backer
 - · EPDM Peroxide Cured

DOCUMENTATION

- » Steriflow Unicert; Certificate of Compliance for:
 - Material, including MTR's
 - Surface Finish
 - FDA/USP <88>, <87> Class VI
 - ADI/TSE Free cert available upon request
- » Each Unicert document lists the order's individual valve Serial/Suffix numbers and wetted component Heat numbers. MTR's for each Heat number follow on attached pages. The Serial numbers and Heat numbers are directly traceable to each individual valve
- » Valve Sizing information with quotation
- » Signed valve Leak Test report upon request

CERTIFICATION

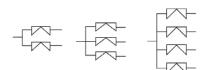
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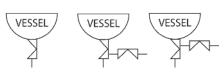


VALVE TYPE BY APPLICATION

- » 2 Ways —
- » Ported
- » Tandem Access
- » Zero Static T-Block
- » Zero Static POU
- » Divert Block



- » Custom Blocks
- » Tank Bottom



GENERAL VALVE SPECIFICATIONS*

Line Size: 1/4" - 4" (DN8 - DN100)

End Connections: ASME BPE, DIN, ISO, Contact Factory

- » Tri-Clamp
- » Tube Weld End

Body Materials

- » Forgings: EN 10272:2000 GR 1.4435 316L standard
- » Bar Stock: ASME SA479 316L (UNS 31603) standard; EN 10272:2000 GR 1.4435, AL-6XN®, Hastelloy® C-22 and others readily available options

Diaphragm Material/Max Temperature: all diaphragms are FDA, USP <88> Class VI and <87> compliant and ADI-free

- » TFM/EPDM Backer / -14°F to 266°F (-26°C to 130°C) ≤300°F (150°C) at 50 psig (3,45 barg) max during SIP
- » EPDM Peroxide Cured / -14°F to 266°F (-26°C to 130°C) ≤300°F (150°C) at 50 psig (3,45 barg) max during SIP

Surface Finish: see individual valve specifications

Pressure at Maximum Temperature: 50 psig @ 300°F (3,45 barg @ 150°C)

Maximum Operating Pressure:

- » 1/4" 1": 200 psi @ 100°F (13,8 bar @ 38°C)
- » 1-1/2" 2": 175 psi @ 100°F (12,1 bar @ 38°C)
- » 2-1/2" 4": 150 psi @ 100°F (10,3 bar @ 38°C)

Seat Leakage: ANSI FCI Class VI

FLOW COEFFICIENT CV (KV)

CONNECTION SIZE	VALVE DESCRIPTION	FLOW COEFFICIENT CV (KV)
1/4" - 1/2"	Compact valve/weir	1.16 (1,0)
1/2"	Any standard forged, barstock or cast body valve with catalog standard weir	5.2 (4,5)
3/4"		8.7 (7,52)
1"		13.9 (12,02)
1-1/2"		34.8 (30,1)
2"		59.7 (51,6)
3"		185 (160)
4"		272 (235)

BONNET/ACTUATOR SPECIFICATIONS*

Manual Bonnet Assembly:

- » Available for valve sizes: 1/2" 4" (DN15 DN100)
- » Closing Stop: Adjustable
- » Bright visual position indicator
- » Options: Contact factory for proximity switches, locking devices and stroke limiter

Bonnet Materials

- » Bonnet: Electropolished Stainless Steel
- » Compressor: Stainless Steel
- » Insert: Brass
- » Thrust Washer: PTFE
- » Compressor Pin: Stainless Steel
- » Indicator: Polyolefin
- » Bushing: Brass
- » Stem: Stainless Steel
- » Handwheel: PPS (1/4" 2"); Stainless Steel (2-1/2" 4")

Air Actuated Bonnets:

- » Available for sizes: 1/2" 2" (DN15 DN50) standard;3" & 4" (DN80 & DN100) optional
- » Air Actuator Materials: Polyamide, Stainless Steel, Stainless Steel base standard for all configurations
- » Actuator Seal: Actuator springs and seals can be replaced without exposing process
- » Orientation: Swivel feature allows 360° orientation of air inlet
- » Air Connections: NPT Stainless Steel base standard for all configurations
- » Function: Change from Normally Open or Normally Closed by inverting the actuator housing
- » Control System Interface: Available with optional switch packages for on/off control or with positioners for flow control and modulation

^{*} Most valves meet all of these general features and specifications. However, sizes may vary depending upon product selected. See individual product page for specific details about each model.