

SFB1: CAST BODY, 2-WAY DIAPHRAGM VALVE

Manual or Pneumatically Actuated Cast Body 2-way Valves

Steriflow cast body 2-way valves offer an economical alternative to forged body valves when customer process requirements or specifications allow. Steriflow's manufacturing, assembling, documentation and valve traceability practices remain the same whether the valve is made from 316L cast or forged material.

SPECIFICATIONS AND FEATURES*

Available Sizes:

- » Standard Valve: 1-1/2", 2", 3", 4"

Connection Type:

- » Standard Valve: Tri-clamp, Extended Tube End

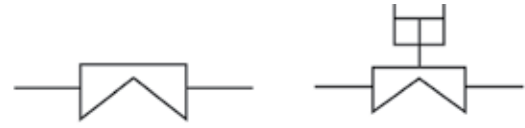
Materials:

- » Standard: Cast 316L, ASTM A351 CF3M

Surface Finish:

- » Wetted Interior:
 - 32 Ra μin (0,81 Ra μm)
 - 32 Ra μin (0,81 Ra μm) Electropolish
- » Exterior:
 - Standard: As cast, Electropolished

* See page 3&4 for GENERAL FEATURES and GENERAL SPECIFICATIONS regarding features and specifications that apply to all diaphragm valves



APPLICATIONS

Single Valve Manual on/off or Air Actuated Flow Control of Drug Process Additives, Drug Products and Clean Utilities

- » Upstream:
 - Bioreactor/Fermenter: For control of WFI, growth media, intermediate drug product, clean dry air and gas, clean steam and clean utility fluids
 - Perfused Bioreactors: Retentate or permeate fluid control
- » Downstream:
 - For control of WFI, buffers, solvent, intermediate and finished drug product, clean dry air and gas, clean steam, and clean utility fluids in the following production area
 - Separation
 - Filtration
 - Chromatography
 - Formulation
 - Fill Finish
- » Buffer and Media Prep:
 - For control of WFI, buffers, growth media, clean steam and clean utility fluids

BONNET / ACTUATOR SPECIFICATIONS

Manual Bonnet Assembly:

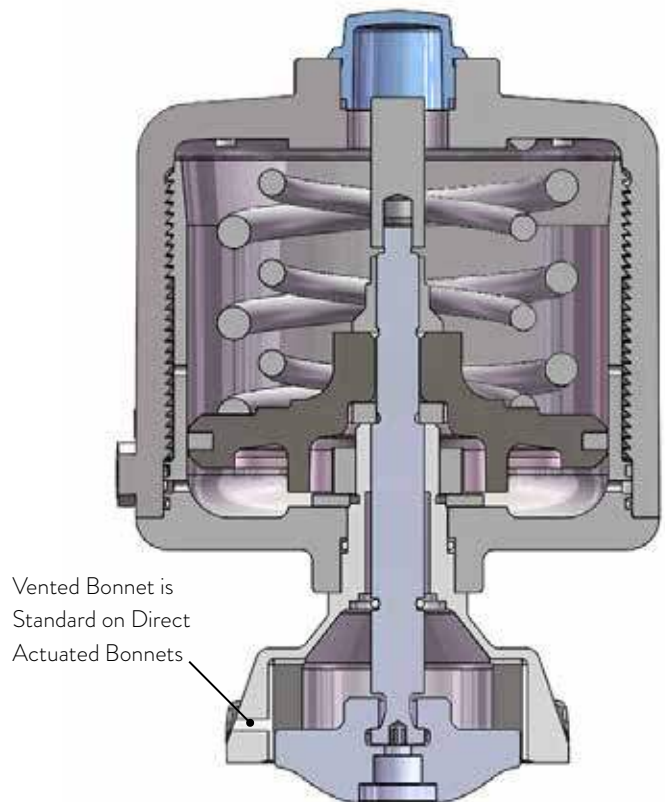
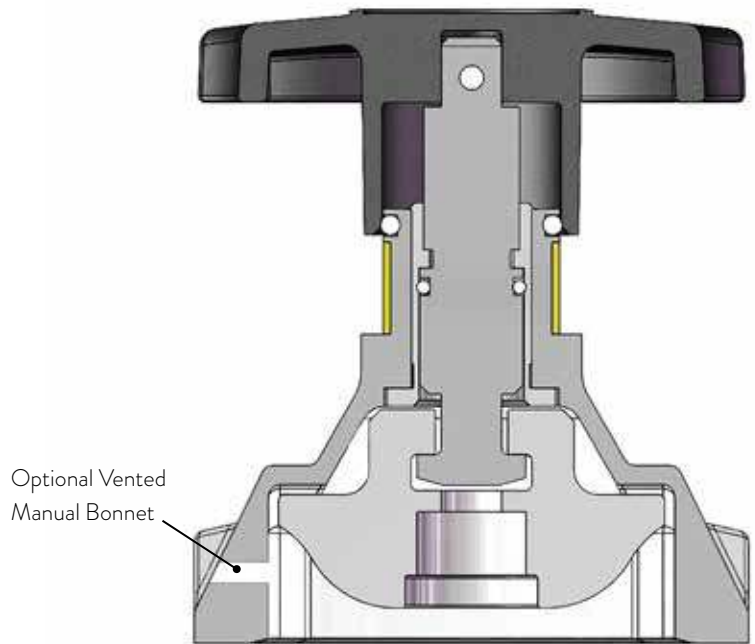
- » Available for sizes: 1/2" - 4" (DN15 - DN100)
- » Closing Stop: adjustable
- » Bright visual position indicator
- » Options: contact factory for proximity switches, locking devices and stroke limiter

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
- » 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



ORDERING SCHEMATIC (CAST BODY, 2-WAY DIAPHRAGM VALVE)

MODEL	TYPE	SIZE	CONN.	FINISH	ACTUATION	DIAPHRAGM	ACC'Y	COMP.
SFB								

1	TYPE
1	Cast Body 2-way

2	SIZE
7	1-1/2"
8	2"
A	3"
B	4"

3	CONNECTION
1	OD Tube
2	Clamp
3	OD Tube x clamp
Z	Non-standard

4	INTERNAL SURFACE FINISH
3	32Ra µin (0,81 Ra µm)
4	32Ra µin (0,81 Ra µm) EP
Z	Non-standard, consult factory

5	ACTUATION
1	Manual
2	Manual Vented
3	2 1/2" - 4" Actuator Spring to Close
4	2 1/2" - 4" Actuator Spring to Open
5	Eclipse Actuator, Double Acting (1 1/2" - 2" standard)
6	Eclipse Actuator, Spring to Close (1 1/2" - 2" standard)
7	Eclipse Actuator, Spring to Open (1 1/2" - 2" standard)

6	DIAPHRAGM
1	EPDM
2	TFM/EPDM
Z	Non-standard

7	ACCESSORIES
1	Switch 2 Position
2	Positioner 4-20 mA
Z	Non-standard, consult factory

8	CE/PED COMPLIANCE
OG	SEP (0.25" to 1")
OF	CE Category 1 (1-1/2" to 4")

Please Contact Factory regarding dimensional drawings. All queries are welcome.