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ASME BPE is a global standard influencing the design and construction of bio-processing equipment and systems; it is referenced or used in over 30 countries.

The standard is focused on unique demands of Pharmaceutical, Bio-Tech, Personal Care and related Hygienic Industries. The BPE Standard is a voluntary consensus standard that has been developed by the work of industry professionals from the end user, manufacturer, A&E and OEM communities.

The application of the ASME BPE Standard has had a positive impact in the bio-process industries by establishing uniform piping dimensions, consistent acceptance criteria for tolerances and surface finish, and optimum weld chemistry. Use of these specifications and practices has reduced construction costs and improved system performance.

The ASME BPE Standard addresses a range of design, materials, and construction parameters for components and systems used in the Life Science Industries.



This includes critical aspects of the design and construction of aseptic diaphragm valves, including:

- Materials of Construction
- Dimensions and Tolerances
- Surface Finish
- Design
- Seal Materials
- Conformance
- Marking

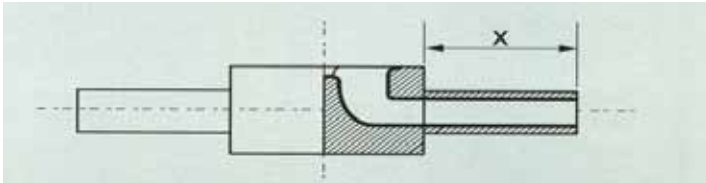
Saunders® BioPharm valves are fully compliant to the ASME BPE Standard. This includes:

Autoweld Ends

316L Weld Chemistry per MMOC-4

0.005%-0.017% Sulfur

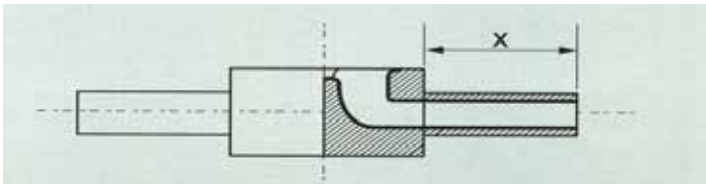
Minimum Tangent and Control Length



Dimensions and Tolerances per DT-V

Hygienic Clamp Ends

2-Way Body Dimensions



Saunders® BioPharm Valves ASME BPE Surface Finishes

Product Contact (ID) Surface Finish Options			
Finish	Measurement		
	Ra (Micro Inch)	Ra (Micro Meter)	ASME BPE SF Code
Mechanical Only	30	0.8	SF3
Mechanical Only	25	0.6	SF2
Mechanical + EP	25	0.6	SF6
Mechanical Only	20	0.5	SF1
Mechanical + EP	20	0.5	SF5
Mechanical + EP	15	0.4	SF4

All finishes are Ra max.

Acceptance criteria is per Tables SF1 and SF-2.



Bodies are marked as per DT-V with additional unique serialization for enhanced traceability (surface finish marking optional Europe).

Saunders® Life Science Diaphragms meet all requirements of ASME BPE part SG (Seals). This includes General Provisions, SG-3.1, and conformance per SG-3.4.



Please visit our Web-Based Drawing Library at: www.saundersdrawings.com for current database of drawings in PDF, 2D DWG, and 3D STP formats.



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CRANE ChemPharma Flow Solutions, Saunders® • 9860 Johnson Road
Montgomery, Texas USA 77316 • Tel.: +1 936 588 8360 • Fax: +1 936 588 8302

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