BIOTECHNOLOGY & PHARMACEUTICAL

APPLICATIONS

Product Index



MANUAL VALVES («PRESSURE OPERATED VALVES» see page II)

Туре		Bio-Pure COP	913	963	970				
Page		1	5	9	13				
	0.25" (DN6)	V							
	0.38" (DN10)	V			 				
	0.5" (DN15)	V	V	V	v				
ø.	0.75" (DN20)		V	v	'				
Size range	1" (DN25)		V	V	V				
ze r	1.5" (DN32/40)		v	V	'				
S	2" (DN50)		v	v	'				
	2.5" (DN65)		v	V					
	3" (DN80)		v	v					
	4" (DN100)		V	V					
Material		Bonnet: 316 Stainless steel Handwheel: Polyesthersulfone (PES)	Bonnet and Handwheel: Stainless steel	Bonnet and Handwheel: Glass reinforced Polyesthersulfone (PES)	Bonnet: 316 Stainless steel Handwheel: Glass reinforced Polyesthersulfone (PES)				
Max. sei		10,34 bar (150 psi)	0.5" - 1": 13,8 bar (200 psi) 1.5" - 2": 12,1 bar (175 psi) 3" - 4": 10,3 bar (150 psi)	10,34 bar (150 psi)	0.5" - 1": 13,8 bar (200 psi) 1.5" - 2": 12,1 bar (175 psi)				
Max. sei tempera		165°C	Page: 5	149°C	Page: 13				
Pressur limitatio	sure/Temperature Page: 4		Page: 8	Page: 12	Page: 16				
Autocla	vable	V	V	V	/				
Sealed of	ption	v	v	v	 				
Body ty	ре	Forged							
Body m	aterial	316L stair	316L stainless steel, tri certified to ASTM A182 grade 316L S9, EN 10222-5, EN 1.4435 BN2						
End cor	nections	Hygienic clamp ends	/ Buttweld / 14, 16, 18, 20 O.D Gau	ige tubing / ISO ends / SMS 1146	Ends / DIN 11850 Ends				

网址:http://www.ivalve.cc

EMERSON. 传真:(86-532)585-10-365 Email: sales@bechinas.com

青岛秉诚自动化设备有限公司

地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

PRESSURE OPERATED VALVES



P&ID Cross Reference	Page
Zero Static Use Points	
Zero Static Tee (ZSBT)	29
Zero Static Back to Back Sample (ZSBBS)	29
Zero Static with vertical run (ZSBV)	29
Zero Static Dual Inline (ZDI)	29
Zero Static with Downstream Purge (ZDPT/ZDPB)	30
Zero Static with Upstream Sample and Downstream Purge (ZUD)	30
Zero Static Inverted with Drain (ZID)	30
Zero Static Block body with Back Outlet Option (ZSBT-BO)	30
Divert and Sterile Access Valves	
Integral Sterile Access and GMP (ISG)	31
2 through 6 Ways Multiport Divert Valves	31
2 through 6 Ways Multiport Divert Valves Outlet Options	32
Chromatography Valve (CHRO & CHN)	33
Integral Dual Sterile Access (IDSA)	33
Crossover (CROD & CRO)	33
Integral Horizontal Sterile Access (IHSA)	33
Horizontal Divert Valve 3-Way (HDV3W)	34
Vessel Valves	
Tank Bottom Valve	35

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At Emerson we understand that Pharmaceutical and Biotechnology products have to be manufactured under the most stringent of conditions to ensure the safety and quality of the final product.

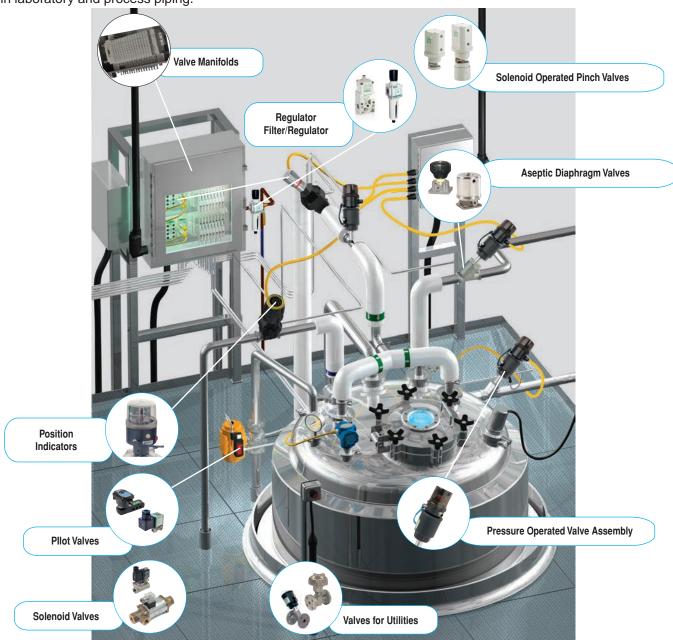
We know that each manufacturer and plant will adopt different and unique processes and we have the certified and high quality products and solutions to meet the needs of all of them.

We offer products for the chemical processes, used mainly within the pharmaceutical industry to manufacture therapeutic and health-related products. We also offer products for the biological processes used within biotechnology plants to create products used in pharmacology, medicine, agriculture, and more.



Pharmaceutical process

In addition to understanding your industry, we also understand automation and control. We have a broad range of products and solutions for the process areas, as well as the anciliary areas, such as control of utilities. Our systems control, measure, and treat - with renowned accuracy and reliability - the flows of liquid, steam, air and other gases in laboratory and process piping.





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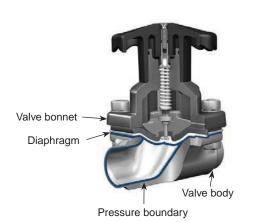
传真:(86-532)585-10-365

Emerson offers a full range of products suitable for aseptic processes in the pharmaceutical and biotechnological market.

Diaphragm valves comply with:

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Chapter 88 In-Vivo
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.

ASCO products range from standard forged valves to the most innovative block technology, each valve is engineered to the highest standard.

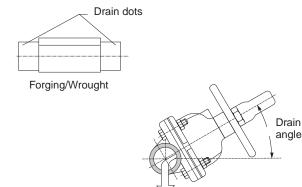


- Bonnet isolation: The diaphragm isolates the working parts of the valve from process fluids.
- Streamlined fluid passage: The smooth contoured body, streamlined flow path, and high quality interior surface prevents accumulation of process fluids or contaminants.
- Minimal contact surface: The process contact surface (i.e. body and diaphragm) are minimal, enhancing the ease of cleaning and sterilization.
- Positive closure: The resilient diaphragm bead in contact with the metal weir assures positive closure.
- Ideal for CIP and SIP: Clean in place and steam in place operations may be performed in line without valve disassembly or operation.
- In-line maintenance: The top entry design allows for in-line maintenance.

ASCO diaphragm valve body

Drainability:

ASCO diaphragm valves may be installed in vertical or horizontal lines. Drain marks are provided as standard to facilitate installation and optimize drainability.



Forged body

Asco



The selection of process components in the pharmaceutical and biotechnological industry demonstrate a distinct movement toward lower ferrite materials. Ferrite is depleted as the material is worked, casting has the highest content, while forging has the lowest. Our standard valves include forged bodies. The Ferrite content for the ANSI and ISO/DIN forged product lines is 0.5%.

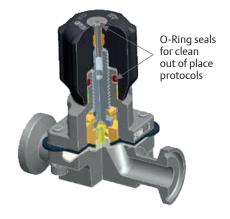
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MANUAL OPERATED, STAINLESS STEEL AND PES OPERATOR, DN 6 TO DN 15

- Manual operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5%
- Designed for sampling and other low flow, high value process like bioreactors, chromatography systems, filtration skids...

General Valve Information				
Size range	DN 6 to DN 15			
Max. service pressure	10,34 bar			
Max. service temperature	+165°C			
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C			
Pressure/Temperature limitations	See page 4			
Bonnet material	316 Stainless steel			
Handwheel material	Polyesthersulfone (PES)			
Corrosion resistance	Alcohol, chloride and most caustic washdowns			





Diaphragm material compatibility *					
Applications		Mat	erial		
Applications	Applications		PTFE		
	Nitric Acid 15% (1)	U	R		
Passivation	Phosphoric 10% (1)	R	R		
Passivation	Citric Acid 15% (1)	R	R		
	Mixed Chelants (2)	R	R		
	Sodium Hydroxide	R	R		
	Sodium Hypochlorite	R	R		
Cleaning (5)	Potassium Hydroxide	R	R		
	Phosphoric Acid	R	R		
	Hydrogen Peroxide	R	R		
	Saturated Steam 1,4 bar (126°C)	R (3)	R		
	Saturated Steam 2,1 bar (135°C)	R (3)	R		
Sterilization	Saturated Steam 2,8 bar (142°C)	R (3)	R		
	Dry Heat (165°C)	U	R		
	Ozone (4)	R	R		

*Ensure that the compatibility of the fluids in contact with the diaphragm

- (1) At 60°C (2) Ammonium citrate base at 80°C (3) Limited life and undesirable failure mode (4) 3% at 27°C
- (5) Consult factory for specific temperature and concentration limitations.
- R = Resistant U = Unsatisfactory

Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.

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- Certificate of traceability to EN 10204 3.1 B available upon request.

青岛秉诚自动化设备有限公司



Actuator Downward Thrust



Backing Cushion



Floating Tube Nut

Snap Ring







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Actuator Stem

PTFE Diaphragm

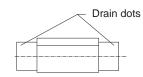
Compressor

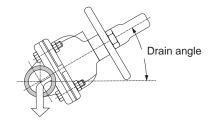
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Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.25"	6	30°	20°	20°
0.375"	10	30°	20°	20°
0.5"	15	30°	20°	20°





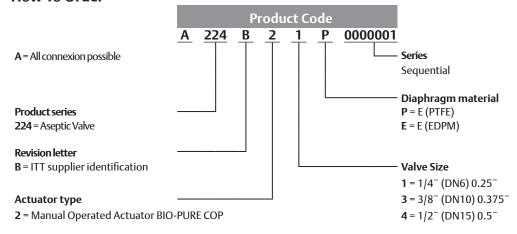
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	§No Mechanical Polish§
	0.8Ra
Mechanical Polish	0.6Ra
Weerlancari Olish	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Electropolish	No Electropolish
Electropolisti	Both Interior and Exterior Electropolish

How To Order



Dimensions: mm (Body)



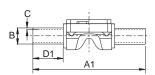
Type 01 butt welding connection

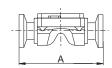


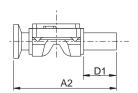
Type 02 clamp connection



Type 03 clamp connection + butt welding connection







ANSI Forging									SI	/IS	
	В	Α	A1	D1	A2		С				С
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
0.25"	6	64	89	25	76,2	S	0				
0.375"	15	64	89	25	76,2	S	0				
0.5"	15	89	128	38	108,7		0	S			

ISO							DIN Serie 1		DIN Serie 2		DIN Serie 3				
	Α	D1	В		С				В	С	В	С	В	С	
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN6	89	25	8	S	0					8	1				
DN10	89	25	13,5	0		S	0			10	1				
DN15	89	25	17,2	0		S	0								

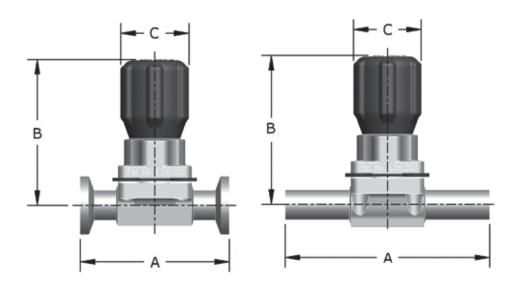
O = Optional

S = Standard

Asco

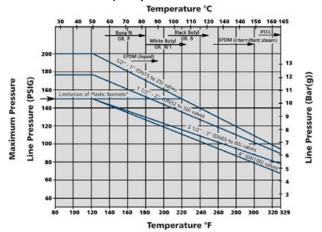
3

Dimensions: mm (Actuator)



	A۱	ISI	DIN / ISO	D	
	A (Tri-Clamp)	A (Buttweld)	A	(Open)	С
(mm)	63,5	89	89	68,9	31,8

Pressure/Temperature Limitations



 * This line shows the limitation of plastic bonnets including the 963 and Advantage Actuators.

Note: Elastomer diaphragms may be used in vacuum service within above temperature recommendations. For services exceeding charted pressure/temperature recommendations, consult factory. The chart does not pertain to steam or corrosive services.

网址:http://www.ivalve.cc

MANUAL OPERATED, DN 15 TO DN 100

- Manual operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5%
- Resistant to standard washroom protocols, this valve is the compact, autoclavable solution for Pharmaceutical / Bioprocessing applications.

General Valve Information						
Size range	DN 15 to DN 100					
Max. service pressure	DN 15-20-25: 13,8 bar / DN 40-50: 12,1 bar / DN 80-100: 10,3 bar					
Max. service temperature						
Temperature °C						
200 Section Professional Profe	13 140 150 160 165 Mordenment chains 13 12 15 15 15 15 15 15 15					
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C					
Pressure/Temperature limitations	See page 8					
Bonnet and Handwheel material	Stainless steel					
Corrosion resistance	Alcohol, chloride and most caustic washdowns					



- Adjustable travel stop
- Protective cap
- Brass stem bushing
- Visual position indicator
- Permanent lubrication
- O-ring seals
- Bronze compressor
- Hygienic internals

Diaphragm material compatibility *					
Applications		Mat	erial		
Applications		EPDM	PTFE		
	Nitric Acid 15% (1)	U	R		
Passivation	Phosphoric 10% (1)	R	R		
Passivation	Citric Acid 15% (1)	R	R		
	Mixed Chelants (2)	R	R		
	Sodium Hydroxide	R	R		
	Sodium Hypochlorite	R	R		
Cleaning (5)	Potassium Hydroxide	R	R		
	Phosphoric Acid	R	R		
	Hydrogen Peroxide	R	R		
	Saturated Steam 1,4 bar (126°C)	R (3)	R		
Sterilization	Saturated Steam 2,1 bar (135°C)	R (3)	R		
	Saturated Steam 2,8 bar (142°C)	R (3)	R		
	Dry Heat (165°C)	U	R		
	Ozone (4)	R	R		

*Ensure that the compatibility of the fluids in contact with the diaphragm is verified.

Description

At 60°C

At 60°C

**The state of the fluids in contact with the diaphragm is verified.

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- ALO C
 Ammonium citrate base at 80°C
 Limited life and undesirable failure mode
 3% at 27°C
 Consult factory for specific temperature and concentration limitations.
 R = Resistant
 U = Unsatisfactory

Diaphragm certifications

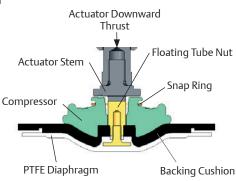
- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
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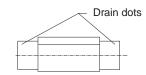
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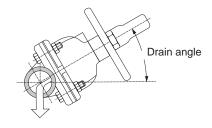
网址:http://www.ivalve.cc

Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.5"	15	30°	20°	20°
0.75"	20	30°	21°	25°
1"	25	30°	22°	26°
1.5"	40	28°	17°	22°
2"	50	23°	16°	19°
2.50"	65	28°	23°	23°
3"	80	23°	14°	18°
4"	100	16°	11°	14°





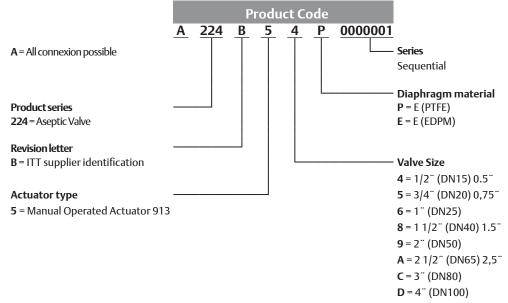
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	No Mechanical Polish
	0.8Ra
Mechanical Polish	0.6Ra
Wechanical Folish	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Flacture aliah	No Electropolish
Electropolish	Both Interior and Exterior Electropolish

How To Order



网址:http://www.ivalve.cc

Dimensions: mm (Body)



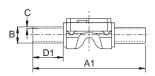
Type 01 butt welding connection

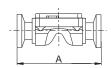


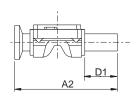
Type 02 clamp connection



Type 03 clamp connection + butt welding connection







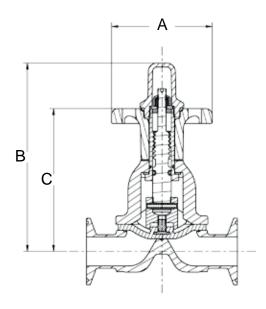
				ANS	SI Forging					SI	/IS
	В	Α	A1	D1	A2		С				
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
0.5"	15	89	128	38	108,7	0	0	S	0		
0.75"	20	102	140	38	120,7	0	0	S	0		
1"	25	114	151	38	132,6		0	S	0	25	1,2
1.5"	40	140	173	38	156,2		0	S	0	38	1,2
2"	50	159	188	38	173,7			S	0	51	1,2
2.5"	65	222	252	44,5	237,2			S		63,5	1,6
3"	80	222	252	44,5	237,2			S	0	76,1	2
4"	100	292	330	51	311,2			0	S		

	ISO								DIN Serie 1		DIN Serie 2		DIN Serie 3		
	Α	D1	В			(;			В	С	В	С	В	С
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN15	106	25	21.3			S	0			18	1	19	1.5	20	2
DN20	118	25	26.9			S	0			22	1	23	1.5	24	2
DN25	127	25	33.7			0	S			28	1	29	1.5	30	2
DN40	174	35	48.3			0	S			40	1	41	1.5	42	2
DN50	191	35	60.3				S	0	0	52	1	53	1.5	54	2
DN65	254	44.5	76.1				0	S	0	70	2				
DN80	254	44.5	88.9					S	0	85	2				
DN100	330	51	114.3					S	0	104	2				

O = Optional S = Standard

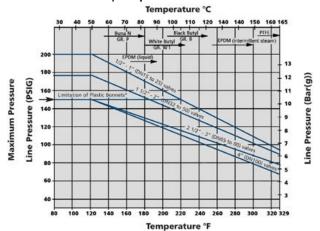
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Dimensions: mm (Actuator)



Valve Size (DN)	A (mm)	B (mm)	C (mm)
15	76,2	92,1	70,0
20	76,2	117,5	88,8
25	76,2	139,8	106,0
40	136,7	210,9	132,3
50	139,7	226,2	147,4
65	196,8	294,9	191,3
80	196,8	294,9	191,3
100	257,8	378,6	260,2

Pressure/Temperature Limitations



 st This line shows the limitation of plastic bonnets including the 963 and Advantage

Note: Elastomer diaphragms may be used in vacuum service within above temperature recommendations. For services exceeding charted pressure/temperature recommendations, consult factory. The chart does not pertain to steam or corrosive services.

网址:http://www.ivalve.cc

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Asco

MANUAL OPERATED, DN 15 TO DN 100

- Manual operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5% of ferrite.
- Resistant to standard washroom protocols, this valve is the compact, autoclavable solution for Pharmaceutical / Bioprocessing applications.

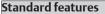
General Valve Information

DN 15 to DN 100 Size range Max. service pressure 10.34 bar +149°C Max. service temperature

Min. service temperature EPDM diaphragm: -30°C; PTFE diaphragm: -20°C

Pressure/Temperature limitations See page 12

Bonnet and Handwheel material Glass reinforced Polyesthersulfone (PES) Corrosion resistance Alcohol, chloride and most caustic washdowns



- Risina stem
- Adjustable travel stop
- Protective PPS cap
- Brass stem bushing - Visual position indicator
- Permanent lubrication
- O-ring seals

Applications

Passivation

Cleaning (5)

- Stainless steel compressor 0.5 2" (DN 15 to DN 50), bronze compressor 3 - 4" (DN 80 - DN 100)
- Enclosed fasteners 0.5 to 3" (DN 15 to DN 80)
- Hygienic internals: 0.5-4" (DN 15 to DN 100)

Nitric Acid 15% (1)

Phosphoric 10% (1)

Citric Acid 15% (1)

Mixed Chelants (2)

Sodium Hydroxide

Sodium Hypochlorite

Potassium Hydroxide

Phosphoric Acid

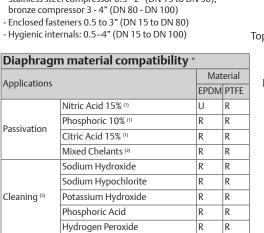
Hydrogen Peroxide

Dry Heat (165°C)

Saturated Steam 1,4 bar (126°C) R (3)

Saturated Steam 2,1 bar (135°C)

Saturated Steam 2,8 bar (142°C)



R

R

R

R

U R

R Ozone (4 *Ensure that the compatibility of the fluids in contact with the diaphragm is verified.

10 At 60°C

Sterilization

- Ammonium citrate base at 80°C Limited life and undesirable failure mode
- 3 Ad 27 C
 S Consult factory for specific temperature and concentration limitations.
 R = Resistant
 U = Unsatisfactory
- Diaphragm certifications
- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.

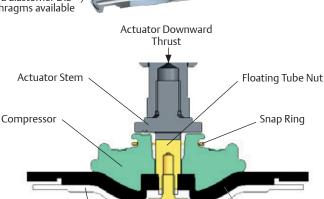
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Floating Tube Nut design pre-vents stud pull out and point loading at diaphragm center















Weep Hole allows for

pluq)

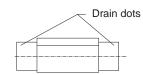
leak detection (available with "V"-notch vent

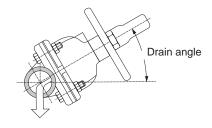


Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.5"	15	30°	20°	20°
0.75"	20	30°	21°	25°
1"	25	30°	22°	26°
1.5"	40	28°	17°	22°
2"	50	23°	16°	19°
2.50"	65	28°	23°	23°
3"	80	23°	14°	18°
4"	100	16°	11°	14°





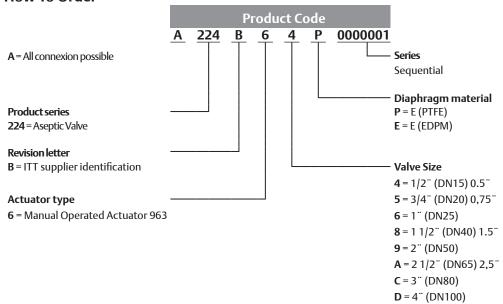
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	§No Mechanical Polish§
	0.8Ra
Mechanical Polish	0.6Ra
Weenancarronsii	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Electropolish	No Electropolish
Electropolisti	Both Interior and Exterior Electropolish

How To Order



网址:http://www.ivalve.cc

Dimensions: mm (Body)



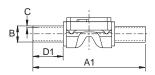
Type 01 butt welding connection

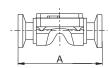


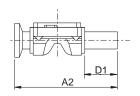
Type 02 clamp connection



Type 03 clamp connection + butt welding connection







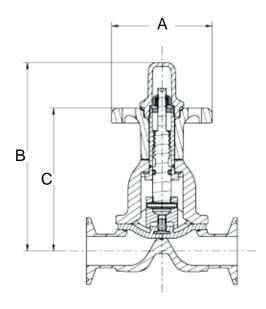
				ANS	SI Forging					SI	/IS
	В	Α	A1	D1	A2		С				
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
0.5"	15	89	128	38	108,7	0	0	S	0		
0.75"	20	102	140	38	120,7	0	0	S	0		
1"	25	114	151	38	132,6		0	S	0	25	1,2
1.5"	40	140	173	38	156,2		0	S	0	38	1,2
2"	50	159	188	38	173,7			S	0	51	1,2
2.5"	65	222	252	44,5	237,2			S		63,5	1,6
3"	80	222	252	44,5	237,2			S	0	76,1	2
4"	100	292	330	51	311,2			0	S		

	ISO									DIN Serie 1		DIN Serie 2		DIN Serie 3	
	Α	D1	В			(2			В	С	В	С	В	С
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN15	106	25	21.3			S	0			18	1	19	1.5	20	2
DN20	118	25	26.9			S	0			22	1	23	1.5	24	2
DN25	127	25	33.7			0	S			28	1	29	1.5	30	2
DN40	174	35	48.3			0	S			40	1	41	1.5	42	2
DN50	191	35	60.3				S	0	0	52	1	53	1.5	54	2
DN65	254	44.5	76.1				0	S	О	70	2				
DN80	254	44.5	88.9					S	0	85	2				
DN100	330	51	114.3					S	0	104	2				

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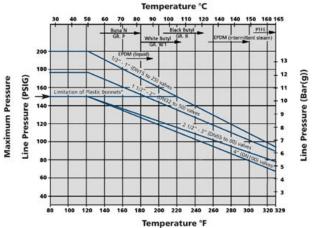
O = Optional S = Standard

Dimensions: mm (Actuator)



Valve Size (DN)	A (mm)	B (mm)	C (mm)
15	76,2	92,1	70,0
20	76,2	117,5	88,8
25	76,2	139,8	106,0
40	136,7	210,9	132,3
50	139,7	226,2	147,4
65	196,8	294,9	191,3
80	196,8	294,9	191,3
100	257,8	378,6	260,2

Pressure/Temperature Limitations



 st This line shows the limitation of plastic bonnets including the 963 and Advantage

Note: Elastomer diaphragms may be used in vacuum service within above temperature recommendations. For services exceeding charted pressure/temperature recommendations, consult factory. The chart does not pertain to steam or corrosive services.

Asco

网址:http://www.ivalve.cc

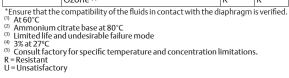
MANUAL OPERATED, DN 15 TO DN 50

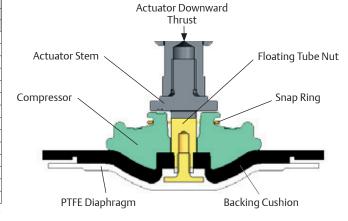
- Manual operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5%
- Resistant to standard washroom protocols, this valve is the compact, autoclavable solution for Pharmaceutical / Bioprocessing applications.

	<u> </u>		
General Valve Information			
Size range	DN 15 to DN 50		
Max. service pressure	DN 15-20-25: 13,8 bar / DN 40-50: 12,1 bar		
Max. service temperature			
Temperature ℃			
200 Back New Service Back Ne	9 140 150 160 165 10 10 150 160 165 11 12 ((((((((((((((((((((((((((((((((
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C		
Pressure/Temperature limitations	See page 16		
Bonnet material	316 Stainless steel		
Handwheel material Polyesthersulfone (PES), FDA compliant			
Corrosion resistance	Alcohol, chloride and most caustic washdowns		



Diaphragm material compatibility *							
Applications		Ma	terial				
Applications		EPDM	PTFE				
	Nitric Acid 15% (1)	U	R				
Passivation	Phosphoric 10% (1)	R	R				
Fassivation	Citric Acid 15% (1)	R	R				
	Mixed Chelants (2)	Mate EPDM U U (i) U (ii) R (iii) R	R				
	Sodium Hydroxide	R	R				
	Sodium Hypochlorite	R	R				
Cleaning (5)	Potassium Hydroxide	R	R				
	Phosphoric Acid	R	R				
S S Cleaning (5) P P P H	Hydrogen Peroxide	R	R				
	Saturated Steam 1,4 bar (126°C)	R (3)	R				
	Saturated Steam 2,1 bar (135°C)	R (3)	R				
Sterilization	Saturated Steam 2,8 bar (142°C)	R (3)	R				
	Dry Heat (165°C)	U	R				
	Ozone (4)	R	R				
*	الما والمارين		:				





Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Chapter 88 In-Vivo
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.



网址:http://www.ivalve.cc









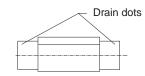
青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

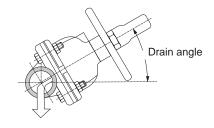
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Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.5"	15	30°	20°	20°
0.75"	20	30°	21°	25°
1"	25	30°	22°	26°
1.5"	40	28°	17°	22°
2"	50	23°	16°	19°





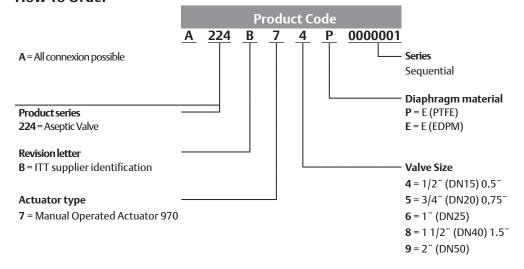
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	No Mechanical Polish
Mechanical Polish	0.8Ra
	0.6Ra
WECHAINCALFORNI	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
el . Iti	No Electropolish
Electropolish	Both Interior and Exterior Electropolish

How To Order



Asco

Dimensions: mm (Body)



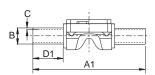
Type 01 butt welding connection

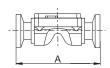


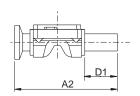
Type 02 clamp connection



Type 03 clamp connection + butt welding connection





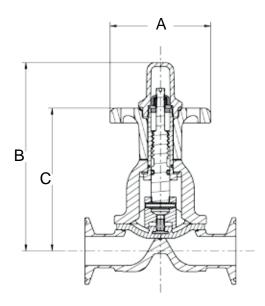


				ANS	SI Forging					SI	MS
	В	Α	A1	D1	A2	С			В	С	
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
0.5"	15	89	128	38	108,7	0	0	S	0		
0.75"	20	102	140	38	120,7	0	0	S	0		
1"	25	114	151	38	132,6		0	S	0	25	1,2
1.5"	40	140	173	38	156,2		0	S	0	38	1,2
2"	50	159	188	38	173,7			S	0	51	1,2

	ISO								DIN Serie 1		DIN Serie 2		DIN Serie 3		
	Α	D1	В			(В	С	В	С	В	С
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN15	106	25	21.3			S	0			18	1	19	1.5	20	2
DN20	118	25	26.9			S	0			22	1	23	1.5	24	2
DN25	127	25	33.7			0	S			28	1	29	1.5	30	2
DN40	174	35	48.3			0	S			40	1	41	1.5	42	2
DN50	191	35	60.3				S	0	0	52	1	53	1.5	54	2

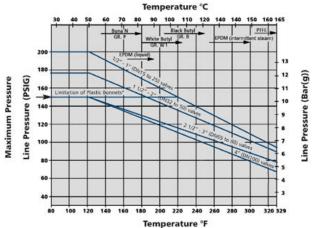
O = Optional

Dimensions: mm (Actuator)



Valve Size (DN)	A (mm)	C (mm)	D (mm)
15	69,9	93,7	99,1
20	69,9	104,4	109,7
25	69,9	120,3	125,7
40	133,3	153,6	165,9
50	133,3	153,6	165,9

Pressure/Temperature Limitations



* This line shows the limitation of plastic bonnets including the 963 and Advantage Actuators.

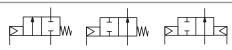
Note: Elastomer diaphragms may be used in vacuum service within above temperature recommendations. For services exceeding charted pressure/temperature recommendations, consult factory. The chart does not pertain to steam or corrosive services.

网址:http://www.ivalve.cc

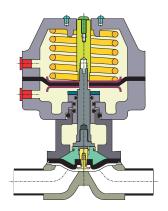
PRESSURE OPERATED, POLYESTHERSULFONE (PES) OPERATOR, DN 6 TO DN 50

- Pressure operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5%
- Modular compressor design for quick changeover between PTFE and elastomer diaphragm.
- Autoclavable (steam at 125°C for 25 minutes).

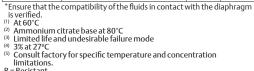
General Valve Information						
Size range	DN 6 to DN 50					
Operating mode	Normally closed, normally open, double acting					
Max. service pressure	10,3 bar					
Max. service temperature	+150°C					
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C					
Max actuator chamber pressure	6,2 bar					
Corrosion resistance	Alcohol, chloride and most caustic washdowns					







Diaphragm material compatibility *						
Applications		Ma	terial			
Applications		EPDM	PTFE			
	Nitric Acid 15% (1)	U	R			
Passivation	Phosphoric 10% (1)	R	R			
	Citric Acid 15% (1)	R	R			
	Mixed Chelants (2)	R	R			
Cleaning (5)	Sodium Hydroxide	R	R			
	Sodium Hypochlorite	R	R			
	Potassium Hydroxide	R	R			
	Phosphoric Acid	R	R			
	Hydrogen Peroxide	R	R			
	Saturated Steam 1,4 bar (126°C)	R (3)	R			
	Saturated Steam 2,1 bar (135°C)	R (3)	R			
Sterilization	Saturated Steam 2,8 bar (142°C)	R (3)	R			
	Dry Heat (165°C)	U	R			
	Ozone (4)	R	R			
*Ensure that the	compatibility of the fluids in contac	t with the c	liaphragm			



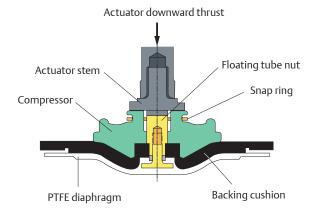
- R = Resistant U = Unsatisfactory

Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance

青岛秉诚自动化设备有限公司

- Chapter 87 In-Vitro
- Chapter 88 In-Vivo
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.









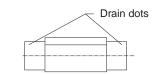


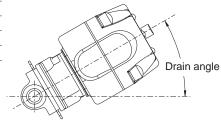


Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.25"	6	30°	20°	20°
0.375"	10	30°	20°	20°
0.5"	15	30°	20°	20°
0.75"	20	30°	21°	25°
1"	25	30°	22°	26°
1.5"	40	28°	17°	22°
2"	50	23°	16°	19°





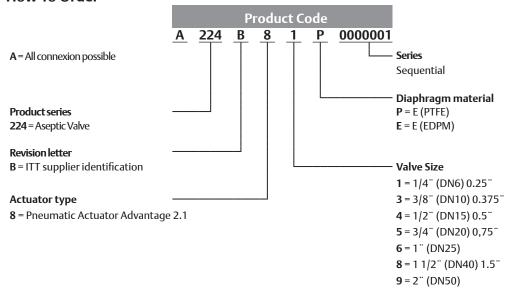
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	No Mechanical Polish
	0.8Ra
Mechanical Polish	0.6Ra
Weenancarronsii	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Electropolish	No Electropolish
Electropolisti	Both Interior and Exterior Electropolish

How To Order



网址:http://www.ivalve.cc

传真:(86-532)585-10-365 Email: sales@bechinas.com

ASCO

Dimensions: mm (Body)



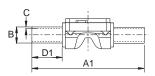
Type 01 butt welding connection

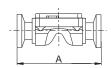


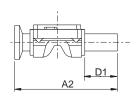
Type 02 clamp connection



Type 03 clamp connection + butt welding







				ANS	SI Forging					SI	/IS
	В	Α	A1	D1	A2		С			В	С
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
0.25"	6	64	89	25	76,2	S	0				
0.375"	10	64	89	25	76,2	S					
0.5"	15	64	89	25	76,2		0	S			
0.5	13	89	128	38	108,7	0	0	S	0		
0.75"	20	102	140	38	120,7	0	0	S	0		
1"	25	114	151	38	132,6		0	S	0	25	1,2
1.5"	40	140	173	38	156,2		0	S	0	38	1,2
2"	50	159	188	38	173,7			S	0	51	1,2

	ISO							DIN Serie 1		DIN Serie 2		DIN Serie 3			
	Α	D1	В			(;			В	С	В	С	В	С
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN6	89	25	8	S	0					8	1				
DN10	89	25	13,5	0		S	0			10	1				
DNIIE	89	25	17,2	0		S	0								
DN15	106	25	21,3			S	0			18	1	19	1,5	20	2
DN20	118	25	26,9			S	0			22	1	23	1,5	24	2
DN25	127	25	33,7			0	S			28	1	29	1,5	30	2
DN40	174	35	48,3			0	S			40	1	41	1,5	42	2
DN50	191	35	60,3				S	0	0	52	1	53	1,5	54	2

O = Optional S = Standard

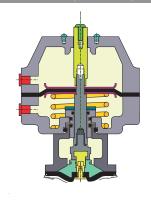
青岛秉诚自动化设备有限公司

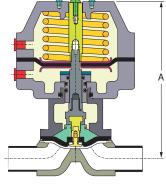
地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F

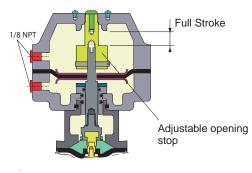
网址:http://www.ivalve.cc

传真:(86-532)585-10-365

Dimensions: mm (Actuator)



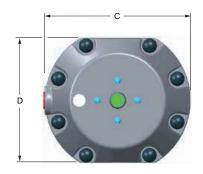




Fail Open (Spring-To-Open, Air-to-Close)

Fail Close (Air-to-Open, Spring-to-Close)

Optional Adjustable Opening Stop (AOS)



Valve Size (DN)	A (mm) [Valve open]	C (mm)	D (mm)
6	109,5	-	-
10	109,5	-	-
15	109,5	-	-
15	123,7	85	76
20	153,9	116	98
25	166,6	116	98
40	264,7	163	151
50	283,5	163	151

网址:http://www.ivalve.cc

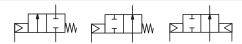
传真:(86-532)585-10-365 Email: sales@bechinas.com

Asco

PRESSURE OPERATED, STAINLESS STEEL OPERATOR, DN 6 TO DN 50

- Pressure operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.
- Forged body in-line with the highest material standards. Complies with stainless steel 316L, 1.4435 sulfur controlled to ASME BPE standards, and contain under 0.5%
- Modular compressor design for quick changeover between PTFE and elastomer diaphragm.
- Suited for severe duty applications, such as SIP and high cycle.

General Valve Information						
Size range	DN 6 to DN 50					
Operating mode	Normally closed, normally open, double acting					
Max. service pressure	10,3 bar					
Max. service temperature	+150°C					
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C					
Max actuator chamber pressure	6,2 bar					
Corrosion resistance	Alcohol, chloride and most caustic washdowns					





Diaphragi	n material compatibili	ity *	
Applications		Mat	terial
Applications	EPDM	PTFE	
	Nitric Acid 15% (1)	U	R
Passivation	Phosphoric 10% (1)	R	R
	Citric Acid 15% (1)	R	R
	Mixed Chelants (2)	R	R
	Sodium Hydroxide	R	R
	Sodium Hypochlorite	R	R
Cleaning (5)	Potassium Hydroxide	R	R
	Phosphoric Acid	R	R
	Hydrogen Peroxide	R	R
	Saturated Steam 1,4 bar (126°C)	R (3)	R
	Saturated Steam 2,1 bar (135°C)	R (3)	R
Sterilization	Saturated Steam 2,8 bar (142°C)	R (3)	R
	Dry Heat (165°C)	U	R
	Ozone (4)	R	R

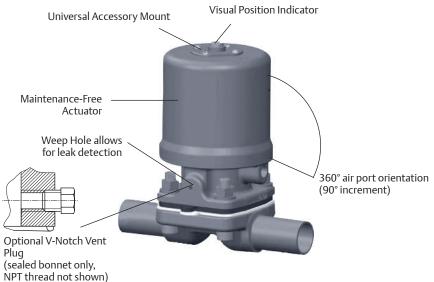
*Ensure that the compatibility of the fluids in contact with the diaphragm is verified.

(1) At 60°C

- Action C Ammonium citrate base at 80°C Limited life and undesirable failure mode 3% at 27°C Consult factory for specific temperature and concentration limitations.
- U = Unsatisfactory

Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.









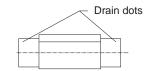


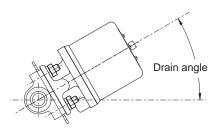


Drain angle

Aseptic valve may be installed in vertical or horizontal lines, as required. Drain marks are provided as a standard on a forged body to facilitate installation and optimized drainability. One mark must be located in the vertical plane, cutting the centerline of the pipe.

Valve Size (IN)	Valve Size (DN)	ANSI	ISO	DIN
0.25"	6	30°	20°	20°
0.5"	15	30°	20°	20°
0.75"	20	30°	21°	25°
1"	25	30°	22°	26°
1.5"	40	28°	17°	22°
2"	50	23°	16°	19°





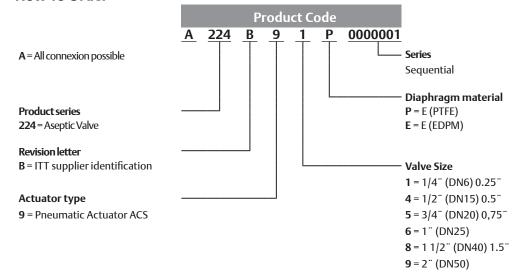
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	No Mechanical Polish
	0.8Ra
Mechanical Polish	0.6Ra
Weerlancari Olish	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Electropolish	No Electropolish
Electropolisti	Both Interior and Exterior Electropolish

How To Order



网址:http://www.ivalve.cc

Dimensions: mm (Body)



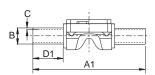
Type 01 butt welding connection

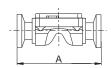


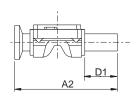
Type 02 clamp connection



Type 03 clamp connection + butt welding connection







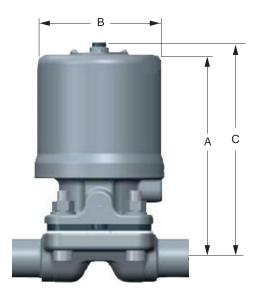
				ANS	SI Forging					SI	/IS
	В	Α	A1	D1	A2		(В	С
End conr	nection size	Overall length (mm)	Overall length (mm)			20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW ASME BPE Extended BW Extended BW		Extended BW ASME BPE	butt welding	connection (BW)	
0.25"	6	64	89	25	76,2	S	0				
0.5"	15	89	128	38	108,7	0	0	S	0		
0.75"	20	102	140	38	120,7	0	0	S	0		
1"	25	114	151	38	132,6		0	S	0	25	1,2
1.5"	40	140	173	38	156,2		0	S	0	38	1,2
2"	50	159	188	38	173,7			S	0	51	1,2

	ISO									D Ser			IN ie 2		IN ie 3
	A D1 B C					В	С	В	С	В	С				
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
DN6	89	25	8	S	0					8	1				
DN15	106	25	21,3			S	0			18	1	19	1,5	20	2
DN20	118	25	26,9			S	0			22	1	23	1,5	24	2
DN25	127	25	33,7			0	S			28	1	29	1,5	30	2
DN40	174	35	48,3			0	S			40	1	41	1,5	42	2
DN50	191	35	60,3				S	0	0	52	1	53	1,5	54	2

O = Optional S = Standard

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Dimensions: mm (Actuator)



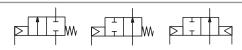
Valve Size (DN)	A (mm)	B (mm)	C (mm)
6	90,2	44,5	99,1
15	107,7	66,5	114
20	131,6	79,2	141,2
25	138,2	79,2	150,9
40	229,9	117,3	250,4

网址:http://www.ivalve.cc

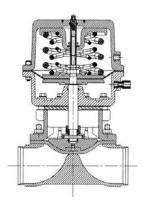
PRESSURE OPERATED, VINYL-ESTHER THERMOSET OPERATOR, DN 80 - DN 100

- Pressure operated aseptic valve, designed for the bioprocessing industry.
- The diaphragm separates the piloting from the fluid. It ensures safety and quality of the final product.

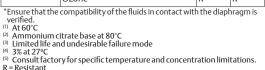
General Valve Information	
Size range	DN 80 - DN 100
Operating mode	Normally closed, normally open, double acting
Max. service pressure	10,34 bar
Max. service temperature	+149°C
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C
Actuator cover material	Vinyl-Ester Thermoset (FDA compliant)
Bonnet material	Nylon coated ductile iron (4"); Stainless steel (3")
Corrosion resistance	Alcohol, chloride and most caustic washdowns







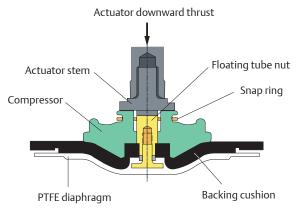
Diaphragm material compatibility *							
Applications	Ma	terial					
Applications	EPDM	PTFE					
	Nitric Acid 15% (1)	U	R				
Passivation	Phosphoric 10% (1)	R	R				
rassivation	Citric Acid 15% (1)	R	R				
	Mixed Chelants (2)	R	R				
	Sodium Hydroxide	R	R				
	Sodium Hypochlorite	R	R				
Cleaning (5)	Potassium Hydroxide	R	R				
	Phosphoric Acid	R	R				
	Hydrogen Peroxide	R	R				
	Saturated Steam 1,4 bar (126°C)	R (3)	R				
	Saturated Steam 2,1 bar (135°C)	R (3)	R				
Sterilization	Saturated Steam 2,8 bar (142°C)	R (3)	R				
	Dry Heat (165°C)	U	R				
	Ozone (4)	R	R				



R = Resistant U = Unsatisfactory

Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.

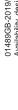












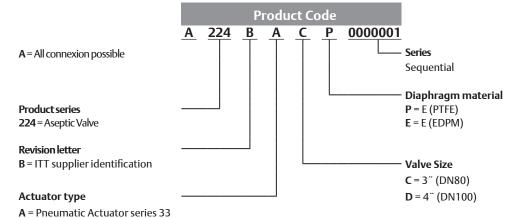
Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning and sterilization.

	EU Service Micron Max.
	No Mechanical Polish
	0.8Ra
Mechanical Polish	0.6Ra
Weerlancari Olish	0.5Ra
	0.38Ra
	0.28Ra
	0.25Ra
Flacture alich	No Electropolish
Electropolish	Both Interior and Exterior Electropolish

How To Order



网址:http://www.ivalve.cc

传真:(86-532)585-10-365

Dimensions: mm (Body)



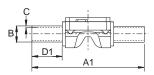
Type 01 butt welding connection

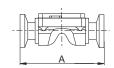


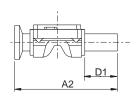
Type 02 clamp connection



Type 03 clamp connection + butt welding







ANSI Forging										SI	//S
	В	Α	A1	D1	A2		В	С			
End conr	nection size	Overall length (mm)	Overall length (mm)	Weld Tangent (mm)	Overall length (mm)	20 GA 0.812	18 GA 1.02	16 GA 1.29	14 GA 1.63		
IN	DN	Clamp	Extended BW Forging	Extended BW Forging	Clamp x butt welding connection (BW)	Extended BW	Extended BW ASME BPE	Extended BW	Extended BW ASME BPE	butt welding	connection (BW)
3"	80	222	252	44,5	237,2			S	0	76,1	2
4"	100	292	330	51	331.2			0	S		

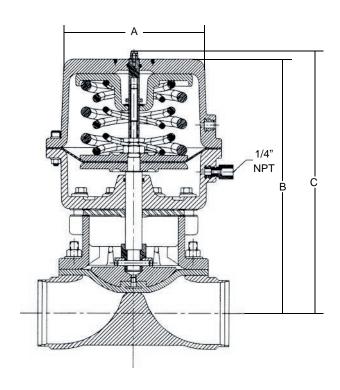
ISO									D Ser	IN ie 1	
	D1	В			(В	С	
End connection size	(mm)	(mm)	(mm)	1	1.2	1.6	2	2.3	2.6	(mm)	(mm)
DN80	254	44,5	88,9					S	0	85	2
DN100	330	51	114,3					S	0	104	2

O = Optional S = Standard

Asco

青岛秉诚自动化设备有限公司 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F 网址:http://www.ivalve.cc

Dimensions: mm (Actuator)



Valve Size (DN)	A (mm)	B (mm)	C (mm)
80	201,9	360,7	416,8
100	201,9	401,8	452,2

网址:http://www.ivalve.cc

ZERO STATIC USE POINTS

Features

Zero Static use points are some of the most critical valves utilized in the Biopharmaceutical industry. Use point valves allow process fluids to be transferred, sampled, drained or diverted with minimal impact on critical systems.

> Description P&ID Illustration

Zero Static Tee (ZSBT)

- · Reduce dead legs.
- Minimize the potential for contamination.
- Main applications: WFI, purified water.

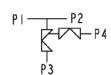






Zero Static Back to Back Sample (ZSBBS)

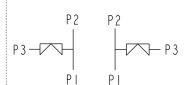
- A modification of the zero static tee.
- A second valve located at the back of the block provides access to a sample port.
- Use to take samples.
- · Reduce contact surface and deadlegs.



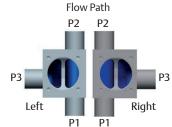


Zero Static with vertical run (ZSBV)

- Standard zero static valves are limited to horizontal main run by vertical outlet orientations. The ZSBV allows drainability with the main run in vertical
- Minimize the potential for contamination.
- Main applications: Sampling and diverting.

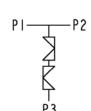


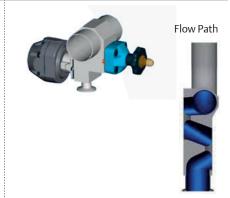




Zero Static Dual Inline (ZDI)

- Designed specifically to allow for maintenance of two use points with minimum downtime.
- Main applications: where the loop service intervals need to be maximized.





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Description P&ID Illustration

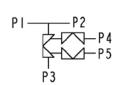
Zero Static with Downstream Purge (ZDPT/ZDPB)

- An integral valve located at the back of the valve assembly provides access to a purge port down
- · ZDPT and ZDPB are an essential element of piping systems required to meet ASME BPE standard.
- Main applications: CIP, SIP.



Zero Static with Upstream Sample and Downstream Purge (ZUD)

- · Allows for point of use sampling of the upstream flow, purging and sterilization of the downstream process and sampling from the same Zero Static
- Main applications: Single use point with multiple outlet, purging and steam sterilization of the downstream line, sampling of the upstream line.

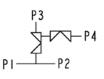


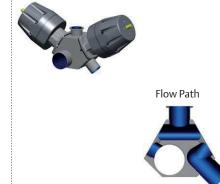




Zero Static Inverted with Drain (ZID)

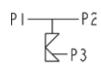
- Integrate the benefits of a zero static for low point feed or return lines while allowing for cleaning, sterilization and draining of the connectd process
- · Main applications: for line feed applications that require the ability to drain the up stream line.





Zero Static Block body with Back Outlet Option (ZSBT-BO)

- Instead of the standard Zero static Tee, the outlet is at the back of the block.
- Minimized the vertical space required.
- · Reduce the space necessary when piping would require a 90° elbow the change the direction.
- Main applications: low clearance areas below WFI and process vessels, skid process systems such as







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ASCO

DIVERT AND STERILE ACCESS VALVES

Features

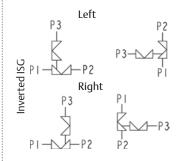
Divert valves are instrumental in achieving efficient, cost effective piping design. They allow process fluids to be diverted, mixed, and/ or sampled.

Divert valves minimize contact surfaces, minimize hold up volume, minimize piping dimensional envelope, reduce number of system weldments, and are more easily actuated and validated.

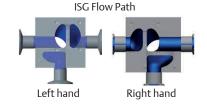
> Description P&ID Illustration

Integral Sterile Access and GMP (ISG)

- Provide the purge valve integral to the main body
- Main applications: Process diversion, steam barrier / block sampling.



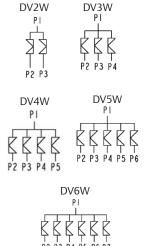


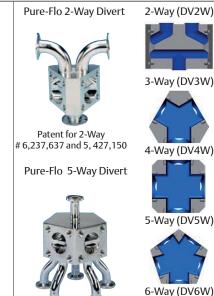




2 through 6 Ways Multiport Divert Valves

- Allows process fluids to be diverted, mixed and/ or sampled.
- · Reduce piping.
- · Cost effective.
- · Avoid dead legs.
- · Main applications: Distribution of process flows, use in place of transfer panels, use for by-pass, drain and isolation, CIP distribution, switching between buffers for Chromatography.





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网址:http://www.ivalve.cc

Description P&ID Illustration 2 through 6 Ways Multiport Divert Valves Outlet Options Option 1 Option 2 Option 3 Option 4 P3 Option 3 • 3-way Option 4 P4 Option 1 - P3 Option 2 Option 3 • 4-way P5 Option 1 Option 2 Р5 • 5-way Option 3 Option 1 Option 2 P6 • 6-way Option 2 Option 1 Option 3 Р3 P6

网址:http://www.ivalve.cc

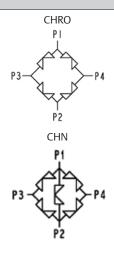
传真:(86-532)585-10-365

DIVERT AND STERILE ACCESS VALVES

Description P&ID Illustration

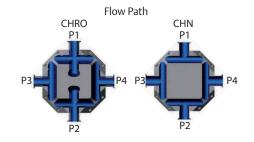
Chromatography Valve (CHRO & CHN)

- · In a typical chromatography process, there is an assempbly of 5 diaphragm valves that connect the chromatography column to the process piping.
- Minimizing dead legs.
- Reduce the overall space needed for the assembly.
- Main applications: Chromatography.



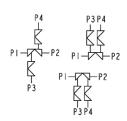


6,112,767 and 5,906,223

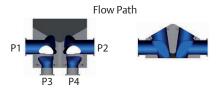


Integral Dual Sterile Access (IDSA)

- Allow access to the process system for sterilizing, sampling, cleaning, diverting or draining.
- Integrate access on either size of the valve.
- Main applications: Cleaning / Sterilization both upstream and downstream.



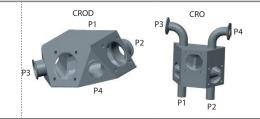




Crossover (CROD & CRO)

- Facilitate maintenance without shutting down the entire process.
- · Main applications: isolation and bypass or equipment such as filter and bubble traps.





Integral Horizontal Sterile Access (IHSA)

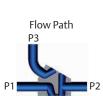
• Integral block incorporating second horizontal valve.

青岛秉诚自动化设备有限公司

• Ideal for vertical space constraints.





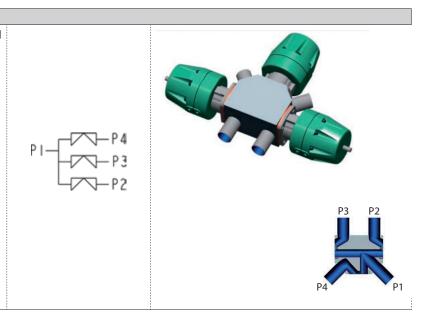


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传真:(86-532)585-10-365 网址:http://www.ivalve.cc Email: sales@bechinas.com Description P&ID Illustration

Horizontal Divert Valve 3-Way (HDV3W)

- Divert process flow, mixing flow paths, drain and isolation.
- Low vertical space installations.



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TANK BOTTOM VALVE

• The tank bottom diaphragm valve is designed for use at the bottom of a tank or vessel to drain or sample while minimizing the interior sump and preventing any dead leg for bacteria or microorganism entrapment.

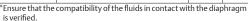


General Valve Information			
Size range	DN 15 to DN 100		
Operating mode	Normally close, normally open, double acting		
Topworks	Manual operating, pressure operated		
Max. service pressure	10,34 bar		
Max. service temperature	+149°C		
Min. service temperature	EPDM diaphragm: -30°C; PTFE diaphragm: -20°C		

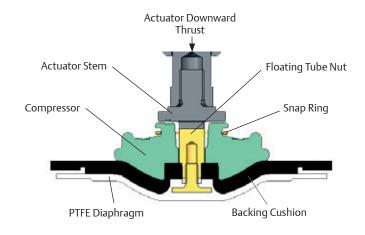


Patent # 5,227,401

Diaphragm material compatibility *				
Applications		Material		
		EPDM	PTFE	
Passivation	Nitric Acid 15% (1)	U	R	
	Phosphoric 10% (1)	R	R	
	Citric Acid 15% (1)	R	R	
	Mixed Chelants (2)	R	R	
Cleaning (5)	Sodium Hydroxide	R	R	
	Sodium Hypochlorite	R	R	
	Potassium Hydroxide	R	R	
	Phosphoric Acid	R	R	
	Hydrogen Peroxide	R	R	
Sterilization	Saturated Steam 1,4 bar (126°C)	R (3)	R	
	Saturated Steam 2,1 bar (135°C)	R (3)	R	
	Saturated Steam 2,8 bar (142°C)	R (3)	R	
	Dry Heat (165°C)	U	R	
	Ozone (4)	R	R	



- (1) At 60°C (2) Ammonium citrate base at 80°C
- (3) Limited life and undesirable failure mode (4) 3% at 27°C
- (5) Consult factory for specific temperature and concentration limitations.
- U = Unsatisfactory



Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.

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Designed and manufacture day 其下 4006-918-365 地址:中国·青岛市重庆南路99号海尔云街甲3号楼7F 网址:http://www.ivalve.cc

Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning

	EU Service Micron Max.	
	§No Mechanical Polish§	
	0.8Ra	
Mechanical Polish	0.6Ra	
	0.5Ra	
	0.38Ra	
	0.28Ra	
	0.25Ra	
Electropolish	No Electropolish	
	Both Interior and Exterior Electropolish	

Asco