Diaphragm Valve



Sanitary valves feature high cleanliness and low residue, and are widely used in fields such as pharmaceutical, beverage, food and fine chemical fluid control, with the characteristics of high safety and high reliability. The diaphragms used in the products comply with the safety standards stipulated by authoritative organizations like the FDA and USP for the pharmaceutical and food industries, so as to meet various requirements and conditions of customers and use high-quality products to adapt to the demands of the gradually developing new technology market.

Application Industry

Pharmaceutical, food and beverages, cosmetics, brewing, chemicals, etc.







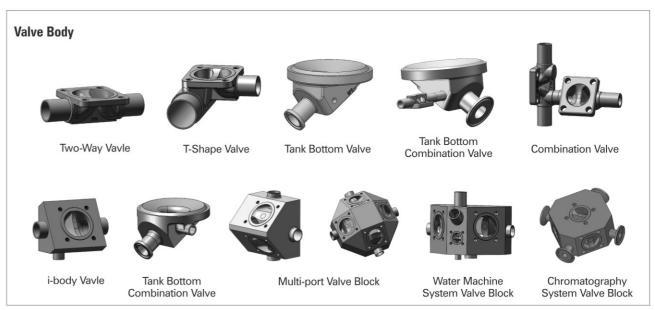


The ESG series of sanitary diaphragm valves adopts a modular design. You can choose different valve bodies, diaphragms and actuators according to your needs.



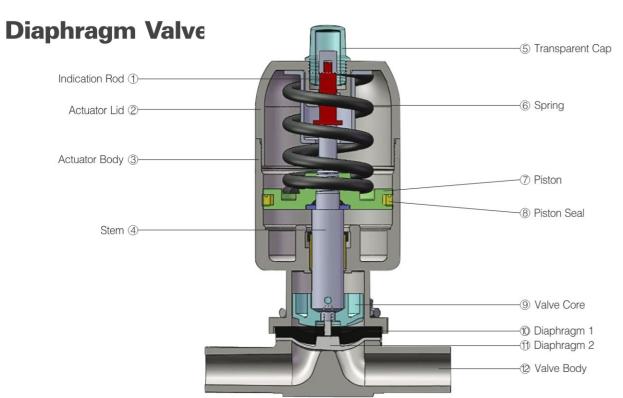






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ESG

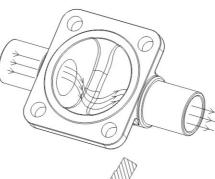


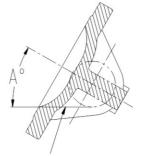
Technical Specification

- Material: (Body) Investment casting CF3M, Forged F316L (Customized special materials) (Pneumatic) Actuator + Valve seat CF8; (Manual) Valve seat CF8
- Internal surface: Ra < 0.4 µ m, mechanically polished (Electro-polishing optional)
- Diaphragm material: EPDM + PTFE (double-layer diaphragm),
 EPDM (Single-layer diaphragm)
- Operating pressure: 0–10bar (0–145psi)
- Fluid temperature: -10°C 130°C (sterilization at 150°C for 60mins)
- Control pressure(pneumatic): 4.5–7bar (65–102psi)

Installation Angle(±1°)

Size	ASME BPE	SMS3008	JIS-G 3447	1127/ DIN 11866-B	11850-0	11850-1/2/3 DIN 11866-A
	Α	А	А	А	А	А
DN8	37	1	/	1	/	/
DN10	32	/	/	/	1	/
DN15	28	/	/	24	28	27
DN20	27	/	/	29	34	33
DN25	30	29	29	19	26	23
DN40	27	34	26	18	23	23
DN50	22	22	22	17	20	20
DN65	12	/	/	/	/	/





The optimal angle is when the tangent line between one end of the Weir and the inner hole of the pipeline is horizontal.

Typical Applications

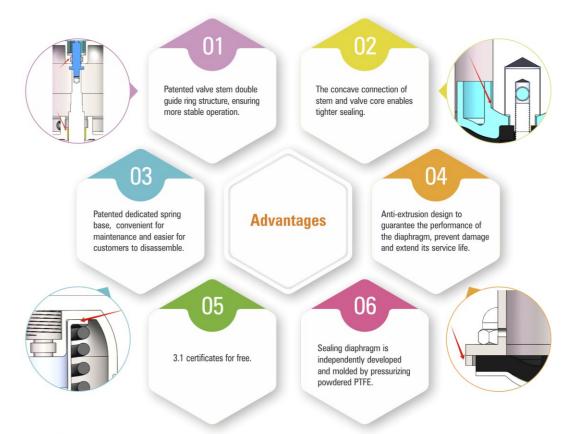
Fermentation tank, Preparation vessel, Filling machine, Sterilizing equipment, Aseptic fluid transfer, CIP/SIP, etc.











Advantages

Double-Layer

The PTFE + EPDM double-layer diaphragm is a high-standard diaphragm form used in sanitary diaphragm valves internationally. The PTFE diaphragm is a product independently developed by ESG. It adopts imported raw materials and is processed and molded by using high-temperature compression molding technology. It is widely used in fields such as blood products, vaccines, biopharmaceuticals, injections, aseptic production, fermentation, water for injection supply and distribution loops.

The EPDM diaphragm on the double-layer not only plays a role in protecting the PTFE diaphragm that contacts the product but also can enhance the sealing effect of the PTFE diaphragm.

Single-Layer

The EPDM single diaphragm is suitable for hot water, cold water, alkaline and weakly acidic media as well as vacuum working conditions. It is especially applicable to polar substances and steam media and is highly suitable for sanitary applications.

It is not recommended to use the EPDM diaphragm for media such as mineral oils and vegetable oils, plant and animal fats, aliphatic or aromatic hydrocarbons, halogenated solvents or concentrated acids, which may cause damage to the diaphragm and lead to leakage.

Diaphragm Introduction

* Diaphragms can be ordered separately.



	Working temperature
Single layer <epdm></epdm>	10°0 100°0 (TTT-150°0 00-1-1-1)
Double layer <epdm+ptfe></epdm+ptfe>	-10℃ — 130℃ (灭菌150℃, 60mins)

ESG

Diaphragm Valve

Quality Control

1. Valve assembly inspection:

100% inspection according to the shipping inspection form.

2. Diaphragm valve seal test:

100% valve assembly seal test, tested according to DIN EN 12266-1.

3. Inner surface finish:

100% IPQC (in-process control), roughness sampling test according to GB2828.

4. Contact surface inspection:

Material testing—Spectrometer; Three-Dimension inspection—Coordinate Measuring Machine.

5. Qualification:

Quality Management System IS09001, Food Contact Raw Materials and Products Directive EC1935–2004, Explosion–proof Safety ATEX Directive 2014/34/EU.



Roughness -Profile Integrated Inspection Instrument



Spectro -Spectrometer



Hexagon -Coordinate Measuring Machine

Certification

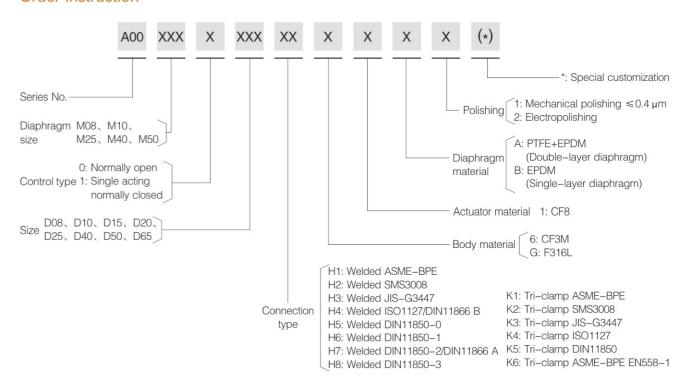
Certification of Diaphragm Valves (Whole Valve) and Diaphragms



EC 1935 / FDA(Food and Drug Administration) Certificate / USP(US Pharmacopeia) Certificate / ATEX anti-explosion certificate



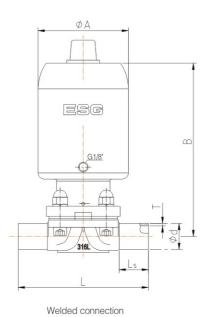
Order Instruction

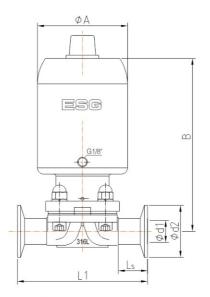


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Diaphragm Valve





Tri-clamp connection

Main Dimension

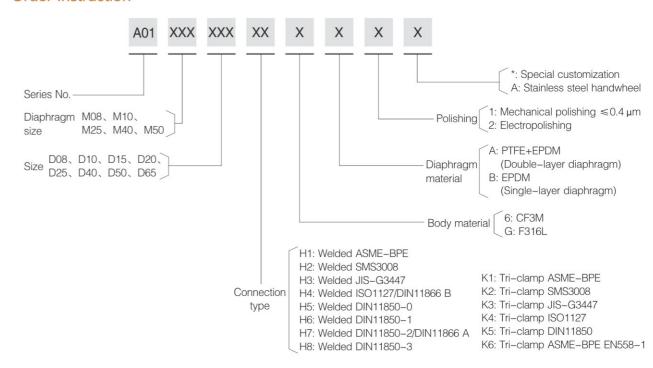
Р	neum	natic c	liaphi	ragm	valve	•	ASME-BPE	CMC2000	JIS-G3447	ICO 1127		DIN-1	1850		DIN-1	11866
	-W	/elded	d con	nectio	on		ASIVIE-DPE	310133000	JIS-G3447	ISO-1127	-0	-1	-2	-3	Α	В
Size	Diaphragm	Actuator	ΦА	В	Ls	L	Φd×T	Φd×T	Φd×T	Φd×T	$\Phi d \times T$	Φd×T	Φd×T	Φd×T	Φd×T	Фd×T
DN8	8	42	47	85	20	72	6.35 × 0.89	-	-	-	-	-	-	-	1-	-
DN10	8	42	47	85	20	72	9.53×0.89	-	-	-	-	-	1-	-	-	-
DN15	8	50	57	106	17	72	12.70 × 1.65	-	-	-	-	-	1-	-	-	-
DIVIS	10	57	65	134	29.5	108	-	-	-	21.3 × 1.6	18 × 1.5	18 × 1.0	19 × 1.5	20×2	19 × 1.5	21.3 × 1.6
DNIOO	10	57	65	134	29.5	108	19.05 × 1.65	-	-	-	-			-	-	-
DN20	25	80	88	170	26.5	120	-	-	-	26.9 × 1.6	22 × 1.5	22 × 1.0	23 × 1.5	24×2	23 × 1.5	26.9 × 1.6
DN25	25	80	88	170	26.5	120	25.4 × 1.65	25.0 × 1.2	25.4 × 1.2	33.7×2	28 × 1.5	28 × 1.0	29 × 1.5	30×2	29 × 1.5	33.7×2
DN40	40	105	109	196	30	153	38.1 × 1.65	38.0 × 1.2	38.1 × 1.2	48.3×2	40 × 1.5	40 × 1.0	41 × 1.5	42×2	41 × 1.5	48.3×2
DN50	50	125	129	226	30.5	173	50.8 × 1.65	51.0 × 1.2	50.8 × 1.5	60.3×2	52 × 1.5	52 × 1.0	53 × 1.5	54×2	53 × 1.5	60.3×2
DN65	50	125	129	232	30.5	173	63.5 × 1.65	-	-	-	-	-	-	-	-	-

Pneun						ASMI	E-BPI		_	ASME		-//		SMS	3008			JIS-G	3447	,		ISO-	1127			DIN-1	1850)
-111	-clam	p con	necu	on					EN5	558-1	Seri	es 7																
Size	Diaphragm	Actuator	ΦА	В	Φd1	Φ d2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φ d2	Ls	L1
DN8	8	42	47	85	4.57	25	15.5	63.5	-	-	-	-	-	-	_	-	-		-	-	-	1 -	_	-	7-	-		-
DN10	8	42	47	85	7.75	25	15.5	63.5		1-	-	-	-	-	-	-	-		-	-		2-	-	-	3-	-		-
DN15	8	50	57	106	9.4	25	15.5	63.5	9.4	25	35	108	-	-	-	_	-		2-	-		-	_	-	1-	-	-	-
DIVID	10	57	65	134	-		-			-	-	-	-	-	0-0	-	-	-1	-	-	18.1	50.5	29.5	108	16.0	34	29.5	108
DN20	10	57	65	134	15.75	25	26.3	101.6	15.75	25	34	117	15.75	25	34	117	_		-	-		-	-	1 - 1	-	-	1	-
DINZU	25	80	88	170	-	-	-			-	-	1 - 1	-		-	-	-		-	-	23.7	50.5	25	117	20.0	34	25	117
DN25	25	80	88	170	22.1	50.5	23.5	114.3	22.1	50.5	30	127	22.6	50.5	30	127	23	50.5	30	127	29.7	50.5	30	127	26.0	50.5	30	127
DN40	40	105	109	196	34.8	50.5	23	139.7	34.8	50.5	33	159	35.6	50.5	33	159	35.7	50.5	33	159	44.3	64	33.5	159	38.0	50.5	33.5	159
DN50	50	125	129	226	47.5	64	23	158.8	47.5	64	39	190	48.6	64	39	190	47.8	64	39	190	56.3	77.5	39	190	50.0	64	39	190
DN65	50	125	129	232	60.2	77.5	39	190	-,	_	=	1 - 1	-	-	-	_	_	-	_		-,:	1-	_	2-3	-		-	-

Other specifications available for customization.



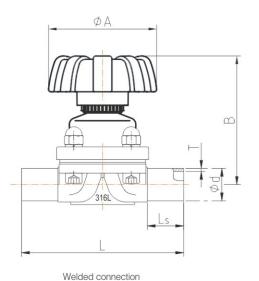
Order Instruction

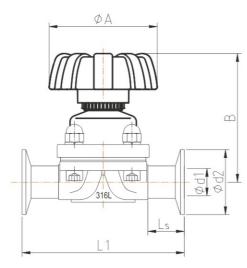


^{*} If the valve is in a normally open state, the G1/8" air inlet port is located on the side of the cylinder barrel at the upper position.



Diaphragm Valve





Tri-clamp connection

Main Dimension

	Manua	al diap	hragn	n valve		ASME-BPE	CNACOOOO	JIS-G3447	ICO 1127		DIN-11	850		DIN-	11866
	-W	eld co	nnect	ion		ASIVIE-BPE	SIVIS3008	JIS-G3447	150-1127	-0	-1	-2	-3	Α	В
Size	Diaphragm	ΦА	В	Ls	L	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T	Φd×T
DN8	8	40	64	20	72	6.35 × 0.89	-	-	-	1-	-			1-	-
DN10	8	40	64	20	72	9.53×0.89	-	-	-	-	-	-		-	-
DN15	8	50	64	17	72	12.70 × 1.65	-	-	-	-	-			-	-
DIVIS	10	65	85	29.5	108	-		-	21.3 × 1.6	18 × 1.5	18 × 1.0	19 × 1.5	20×2	19 × 1.5	21.3 × 1.6
DNIOO	10	65	85	29.5	108	19.05 × 1.65		-	-	1=	-				-
DN20	25	85	102	26.5	120	-	-	-	26.9 × 1.6	22 × 1.5	22 × 1.0	23 × 1.5	24×2	23 × 1.5	26.9 × 1.6
DN25	25	85	102	26.5	120	25.4 × 1.65	25.0 × 1.2	25.4 × 1.2	33.7×2	28 × 1.5	28 × 1.0	29 × 1.5	30×2	29 × 1.5	33.7 × 2
DN40	40	105	115	30	153	38.1 × 1.65	38.0 × 1.2	38.1 × 1.2	48.3 × 2	40 × 1.5	40 × 1.0	41 × 1.5	43×2	41 × 1.5	48.3 × 2
DN50	50	125	133	30.5	173	50.8 × 1.65	51.0 × 1.2	50.8 × 1.5	60.3×2	52 × 1.5	52 × 1.0	53 × 1.5	54×2	53 × 1.5	60.3×2
DN65	50	125	139	30.5	173	63.5 × 1.65	-	-	-	-	_	-	_	-	-

Manua -Tri-c					ASMI	E-BPE			ASME 558-1		30330		SMS	3008			JIS-G	3447			ISO-	1127		ı	DIN-1	1850	,
Size	Diaphragm	ΦА	В	Φd1	Φd2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φ d2	Ls	L1	Φd1	Φd2	Ls	L1	Φd1	Φ d2	Ls	L1	Φd1	Φd2	Ls	L1
DN8	8	40	64	4.57	25	15.5	63.5	-	_	-	1-1	2-	-	-	_	7	-	_			-	= -	-	-	_	-	-
DN10	8	40	64	7.75	25	15.5	63.5	-			1-11	1-	-	-	-	-			9-8	1 - 1	7-	-	-	-	-	-	-
DN15	8	50	64	9.4	25	15.5	63.5	9.4	25	35	108	1-	7-	-	_	-	-	-		-	7-	-	-	-	-	-	-
DIVID	10	65	85	1-	-	-	-	-	-			1-	1-	-	-	-	-	-		18.1	50.5	29.5	108	16.0	34	29.5	108
DN20	10	65	85	15.75	25	26.3	101.6	15.75	25	34	117	15.75	25	34	117	-	-	-1	1-1	-	7-	1-	-	-	-	-	-
DNZU	25	85	102	7-	-	-	-	-	-		1-0	1-	-	-	-	-	-		1-1	23.7	50.5	25	117	20.0	34	25	117
DN25	25	85	102	22.1	50.5	23.5	114.3	22.1	50.5	30	127	22.6	50.5	30	127	23	50.5	30	127	29.7	50.5	30	127	26.0	50.5	30	127
DN40	40	105	115	34.8	50.5	23	139.7	34.8	50.5	33	159	35.6	50.5	33	159	35.7	50.5	33	159	44.3	64	33.5	159	38.0	50.5	33.5	159
DN50	50	125	133	47.5	64	23	158.8	47.5	64	39	190	48.6	64	39	190	47.8	64	39	190	56.3	77.5	39	190	50.0	64	39	190
DN65	50	125	139	60.2	77.5	39	190	-			g .— g z	- I	2-	-	-	-	-	-	7 - 7	2 - 2	2	i	-	-	-		-

Other specifications available for customization.

Proportional Diaphragm Valve

A02 Series Proportional Diaphragm Valve



Technical Specification

- Voltage: 24V DC
- Power: <4W
- Input signal: 0/4-20mA, 0-5/10V
- Output signal: Analog signal (0/4–20mA, 0–5/10V)
 Digital signal (High voltage level)
 (Alternative choice of two)
- Enclosure material: PA6-GF15+PC+304
- Control pressure: 4.5–7bar (65–102psi)
- Ambient temperature: 0-60°C
- Protection level: IP65
- Explosion-proof: II 3G Ex ec IIC T4 Gc

Advantages

- 1. Compact size to save space.
- 2. Reliable performance and sensitive reaction.
- 3. Large LCD display makes it easy to operate.
- 4. Standard electrical interface allows convenient wiring.
- 5. High adjustment precision and strong anti-interference performance.
- 6. Spring-loaded feedback rod for easy installation.
- 7. Allows various types of connection interface.

Function Principle

Intelligent positioner is a microprocessor-based valve regulator. The valve's open/close state is controlled by external input signals. It is widely used in industrial fluids control systems in order to enable remote and automated control.



Proportional Diaphragm Valve

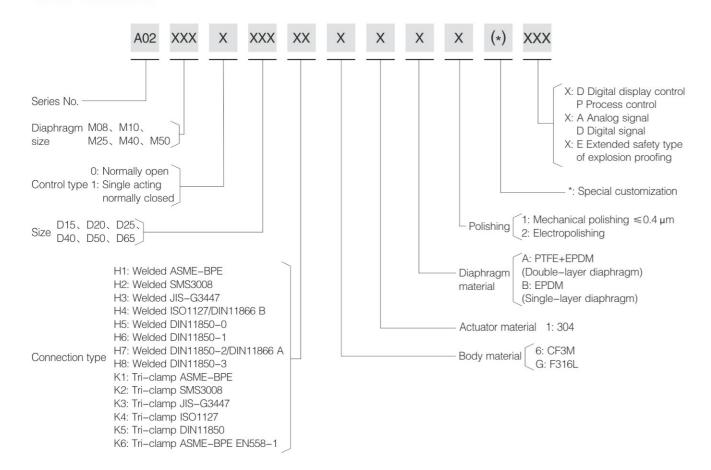
Electrical Terminal

Electrical Terminal	Descriptions	Color	Signal Type
1	Power+	Brown	+24VDC ± 10%
2	Input Signal+	White	0/4-20mA or 0-5/10V
3	Common Ground Wire(GND)	Blue	GND
4	Feedback Signal+ (Optional: Alarm output for insufficient adjustment)	Black	0/4-20mA or 0-5/10V (High electric level)
5	Standby	Grey	

Pneumatic Terminal

Port Label	Description
Р	Air supply port
А	Control port
R	Exhaust port

Order Instruction



T-Shape Valve





Technical Specification

- Material: Investment casting CF3M,
 Forged F316L (Customized special materials)
 (Pneumatic) Actuator+Valve seat CF8;
 (Manual) Valve seat CF8
- Internal Surface: Ra < 0.4 µ m mechanically polished
- Diaphragm Material: EPDM+PTFE (Double-layer diaphragm)
 EPDM (Single-layer diaphragm)
- Operating Pressure: 0–10bar (0–145psi)
- Fluid Temperature: -10°C +130°C (sterilization at 150°C for 60mins)
- Control Pressure(pneumatic): 4.5–7bar (65–102psi)

Advantages

A11 Series

Manual

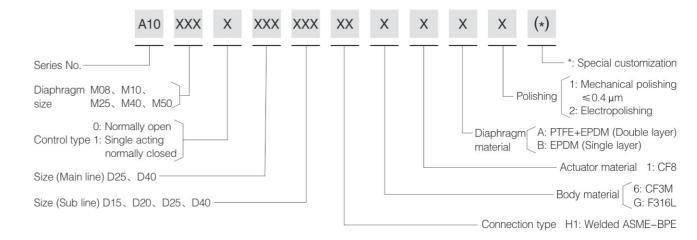
T-shape Valve

- 1. Compact structure to minimize installation space.
- No dead angle and auto emptying can be achieved based on the installation position.
- Applicable to CiP/SIP process to actualize online high temperature disinfection.
- 4. The surface finish of the inner surface of the valve body can reach Ran 4
- 5. Manual and pneumatic actuator is optional.
- 6. According to 3D standards, it can be placed vertically.

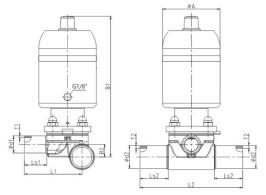
Function Principle

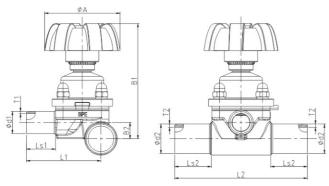
The T-shape valve body is welded to the annular lines of liquid or pure water system. Through this technical method, it can achieve the best effect of sampling or usage of water seamlessly. In addition, based on the requirement of the process, the technology is able to mix two kinds of working mediums. Most importantly, the seal ridge of the T-shape valve has to be as close to the main pipe as possible.

Order Instruction



T-Shape Valve





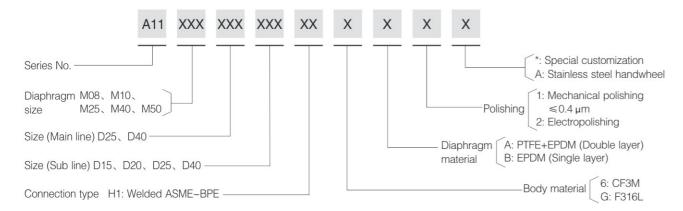
Pneumatic T-shape Manual T-shape

Main Dimension

		1	Pneumatic 1	Γ–shape Val	ve — Welde	d Connection	n			ASMI	E-BPE
Size	Diaphragm	Actuator	ФА	B1	B2	Ls1	Ls2	L1	L2	Фd1 X Т1	Ф d2 X T2
25-15	8	50	57	140	15	20	33	51	103	12.7 X 1.65	25.4 X 1.65
25-20	10	57	65	165	14	25	31	64	114	19.05 X 1.65	25.4 X 1.65
25-25	25	80	88	205	13	25	25	76	124.5	25.4 X 1.65	25.4 X 1.65
40-25	25	80	88	215	20	25	25	82	124.5	25.4 X 1.65	38.1 X 1.65
40-40	40	105	109	235	20	25	27	97.5	152	38.1 X 1.65	38.1 X 1.65

		Ma	nual T-shape	Valve — We	elded Connect	tion			ASME	E-BPE
Size	Diaphragm	ФА	B1	B2	Ls1	Ls2	L1	L2	Фd1 X Т1	Φd2 X T2
25-15	8	50	80	15	20	33	51	103	12.7 X 1.65	25.4 X 1.65
25-20	10	65	100	14	25	31	64	114	19.05 X 1.65	25.4 X 1.65
25-25	25	85	115	13	25	25	76	124.5	25.4 X 1.65	25.4 X 1.65
40-25	25	85	125	20	25	25	82	124.5	25.4 X 1.65	38.1 X 1.65
40-40	40	105	130	20	25	27	97.5	152	38.1 X 1.65	38.1 X 1.65

Order Instruction



Tank Bottom Valve



Technical Specification

- Material: Investment casting CF3M,
 Forged F316L (Customized special materials)
 (Pneumatic) Actuator+Valve seat CF8;
 (Manual) Valve seat CF8
- Internal Surface: Ra < 0.4 µ m mechanically polished
- Diaphragm Material: EPDM+PTFE (Double-layer diaphragm)
 EPDM (Single-layer diaphragm)
- Operating Pressure: 0–10bar (0–145psi)
- Fluid Temperature: -10°C +130°C (sterilization at 150°C for 60mins)
- Control Pressure(pneumatic): 4.5–7bar (65–102psi)

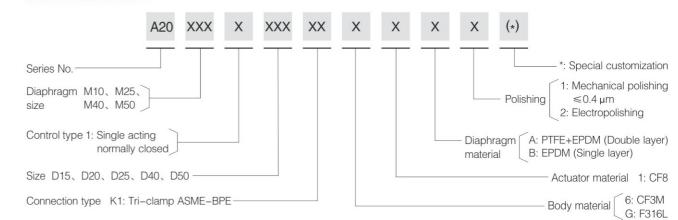
Advantages

- 1. Compact structure to minimize installation space.
- No dead angle, auto emptying and no turbulence phenomenon during the emptying process.
- Applicable to CiP/SIP process to actualize online high temperature disinfection.
- 4. The surface finish of the inner surface of the valve body can reach
- 5. Manual and pneumatic actuator is optional.

Function Principle

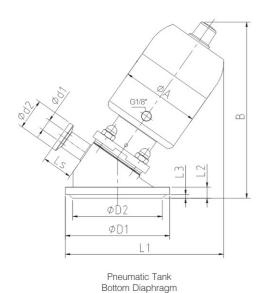
The bottom valve of the tank is welded to the bottom of the container to achieve the best effect of emptying, cleaning and disinfection. In addition, the working medium can be well mixed according to various technological requirements during the operation. The most important thing is that the sealing weir of the tank bottom valve has been close to the tank bottom wall to the greatest extent, so as to achieve the effect of zero dead angle.

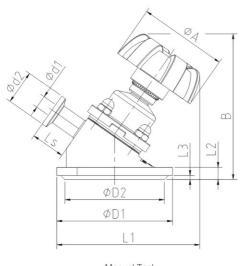
Order Instruction



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Tank Bottom Valve





Manual Tank Bottom Diaphragm

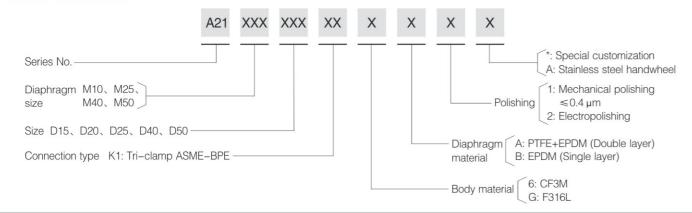
Main Dimension (Pneumatic Tank Bottom Valve)

Size	Diaphragm	ФА	В	Ф D1	Φ D2	Φ d1	Φ d2	L1	L2	L3	Ls
DN15	10	65	145	85	73	9.4	25	130	12	3	25
DN20	10	65	145	85	73	15.75	25	130	12	3	25
DN25	25	88	195	120	108	22.1	50.5	178	16	3	30
DN40	40	109	220	150	138	34.8	50.5	210	18	3	35
DN50	50	129	255	180	168	47.5	64	240	22	3	35

Main Dimension (Manual Tank Bottom Valve)

Size	Diaphragm	ФА	В	Ф D1	Ф D2	Φ d1	Ф d2	L1	L2	L3	Ls
DN15	10	65	110	85	73	9.4	25	105	12	3	25
DN20	10	65	110	85	73	15.75	25	105	12	3	25
DN25	25	85	135	120	108	22.1	50.5	138	16	3	30
DN40	40	105	155	150	138	34.8	50.5	165	18	3	35
DN50	50	125	180	180	168	47.5	64	195	22	3	35

Order Instruction



Sampling Valve



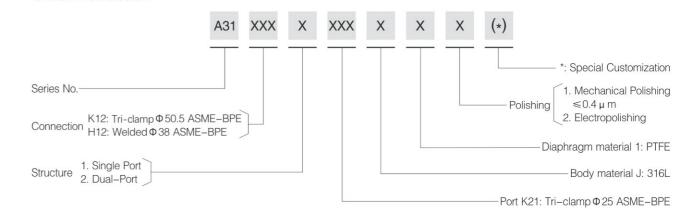
Technical Specification

- Valve Body Material: AISI 316L
- \blacksquare Internal Surface: Mechanical Polishing Ra ${\leqslant}\,0.4\,\mu$ m; Electropolishing
- Connecton Type: Welded Connection, Clamp Connection
- Valve Body Bore Diameter: Ф8
- Nominal Pressure: PN16
- Control Type: Manual
- Connection Type: ASME-BPE Welded, ASME-BPE Clamp
- Diaphragm Material: PTFE
- Operating Pressure: 0-1.0Mpa
- Fluid Temperature: -10°C +150°C
- Structure: Single Port (With Sterilization Function), Dual-Port

Advantages

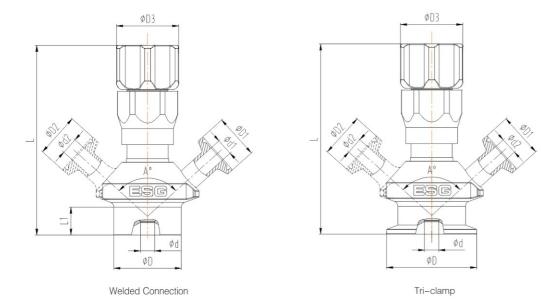
- 1. Valve diaphragm is certified with FDA and USP.
- Valve bodies with ports are machined in one piece of forging steel, thus avoiding all crevices and fissures from welded or screwed parts.
- 3. Valve bodies come with welded or clamp connection, customization is acceptable.
- 4. Sanitary seal has good resistance to high pressure, excellent corrosion resistance and is of long service life.
- 5. Spring–preloading structure strengthens sealing effect and prolong the valve seat service life.

Order Instruction





Sampling Valve



Main Dimension (Tri-clamp Connection)

Size	ФД	Фф	L	Ф D 1	Ф d1	Ф D 2	Φ d2	Ф D 3	Α°
Single Port	50.5	8	110	25	9.4	1-1	-	38	96
Dual-Port	50.5	8	110	25	9.4	25	9.4	38	96

Port size customization available.

Main Dimension (Welded Connection)

Size	ФД	Фф	L	L1	Ф D1	Φ d1	Ф D2	Φ d2	Ф ДЗ	Α°
Single-Port	38	8	110	15.5	25	9.4		-	38	96
Dual-Port	38	8	110	15.5	25	9.4	25	9.4	38	96

Port size customization available.

Multi-port Valve Block



Advantages

I-bodies valve is a special structural form based on two two-way, two-position valves. The absence of welding processes between the two valves ensures the safety of production. The ESG I-body valve body adopts an integrated steel one-piece processing valve body, which has the following advantages:

- 1. Compact design and light weight:
- 2. Minimization of dead corners;
- 3. No welding inside the valve body;
- 4. Compact installation;
- 5. Cost saving;
- 6. It can be placed vertically according to 3D standards;
- 7. It has better drainage capacity than combined valves;
- 8. The valve seat can be equipped with either a pneumatic or a manual actuator.



Multi-port Valve Block

A6 Series M - bodies



Overview

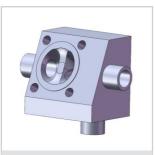
For this series, based on the actual needs on site, ESG conducts the design after fully understanding the detailed working conditions of customers, such as their usage processes, installation positions and the flow relationships among various valves. During the design process, the cleaning, sterilization, emptying performance, dead corners and residues of the valves are taken into consideration. ESG designers present the optimal and most reasonable designs to customers.

Advantages

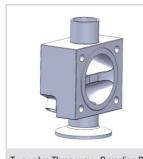
- 1. Customized design according to requirements.
- 2. CNC machining of integral steel.
- Compact structure.
- 4. No dead corners and automatic emptying.
- 5. Convenient installation.
- 6. Shorten the commissioning time.
- 7. Improve the safety of production.
- 8. Free choice between manual and pneumatic actuators.







Two-valve Three-way Valve Block



Two-valve Three-way - Sampling Port



Bubble Trap Valve Block



Three-valve Three-way Valve Block



Water Machine Valve Block



Four-valve Four-way Valve Block



Column Position Valve

Combination Valve

A50 series Combination Diaphragm Valve



Overview

In order to better balance the material costs and processing costs, on the premise of meeting the customer's process requirements such as cleaning, sterilization, and self-discharging, ESG has carried out specific arrangements and layouts for the valves, thus obtaining the most reasonable solutions for customers to use. The GMP combination valve combines two two-way diaphragm valves or combines one two-way diaphragm valve and a tri-clamp chuck by means of welding.

For working conditions with higher requirements for the effects of cleaning, sterilization, self-discharging, etc., customers often need two two-way diaphragm valves to not only meet the requirements of self-discharging or full-discharging but also minimize the dead corners at the connection points as much as possible. To this end, ESG has launched 8 SAP combination modes and 4 SAP two-way valves with a third outlet interface for customers to choose from.

According to the application situation in the industry, ESG has launched 10 GMP combination modes for customers to choose from.

The valve body material of the combination valve can be freely combined according to the needs of customers, and the combination form can also be specially customized according to the customer's process requirements.









GMP4



GMP6









ESG

Combination Valve

















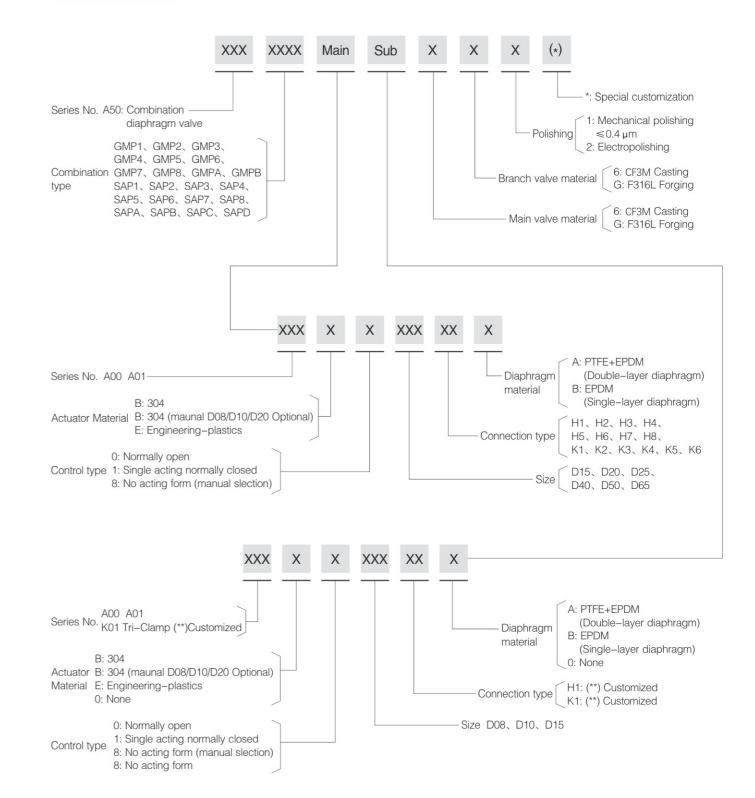








Order Instruction



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Combination Valve

A52 series Combination Bottom Tank Valve









Overview

In order to take into account the manufacturing cost under the premise of meeting client's requirement during cleaning process, sterilization process and self discharge abilities, ESG has specifically arranged the layout of the valve so to provide the most suitable scheme for our client.

Bottom tank valve can be equipped with CIP/SIP interface at the rear of the valve body, the interface can be optionally chucked or welded to connect the pipe or the valve body. ESG can combine both tank bottom valve and two-way diaphragm valve, or reserve the side wall of the bottom tank valve for welding and chuck interfaces for CIP/SIP process. The following combinations is available and combinations can be customized according to requirements.

Order Instruction

