

Butterfly valves



Butterfly Valve VF ...

The Aerre Inox stainless steel butterfly valve VF are on/off routing valves, available with manually and pneumatically operated system.

Due to their large opening areas, minimize turbulence, offer low pressure drop and provide gentle treatment of low and medium viscosity product. The handle mechanically locks the valve in its open or closed position.

A disc closes against a silicone seal when the handle is at right angle to the pipeline; when the handle is turned 90° the disc is parallel to the product flow and the valve is fully open.

The valve consists of two valve body halves, valve shutter/stem, and seal gasket, assembled and secured by means of screws and nuts.

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(2)

TYPICAL APPLICATION

Butterfly valve is suitable in every process for food industry: mineral water, milk, wine, beer, juice. Ideal also for pharmaceutical, biotechnological and chemical plants.

SIZE RANGE

Interchangeable body heads are available for different applications, completely machined from bar, no welded tube extension

Model VFS-TC – clamp BS4825/ASME-BPE from ³/₄" up to 10" Model VFS-SS – butt weld from ³/₄" up to 10" - Tube OD Model VFS-DIN – DIN 11851 from DN20 up to DN100 Model VFC – quick dismounting from ³/₄" up to 2" Model VFF-TB – tank bottom flush weld from ³/₄" up to 4" extended tube for orbital welding or other on request

SURFACE FINISH

Internal body surfaces Ra <0,5 micron or better External mirror polished Electro-polished also available on request

SEAT MATERIALS

Complying with FDA guidelines For more information on seat characteristics please contact us

OPERATOR

The valves can be fitted with manual handle or with ISO 5211 mounting pad for pneumatic actuators

- Stainless steel manual handle (quarter-turn for open/close)
- Thermoplastic lockable griper handle 12 positions
- Stainless steel pull and turn handle
- Pneumatic actuator (DA double acting SR spring return)

PED PRESSURE DIRECTIVE

In compliance with the European Directive 2014/68/EU The valves are designed according to directive 2014/68/EU, certified by notified body and meets the basic requirements indicated in Directive 2014/68/EU

PRESSURE/TEMPERATURE RATING

Min / Max working pressure-1/+10 bar (g)Min / Max working temperature0°C / 150°CRanges change based on size



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MATERIAL

- 1 Body valve Forged AISI 316L-1.4404 ss
 - Disc/stem Forged AISI 316L-1.4404 ss
 - Gasket Silicone, EPDM, FKM
- 4 Screw
 - AISI 304 stainless steel Silicone
- 5 Cap Silic
- 6 handle AISI 304 stainless steel

Pressure drop/capacity diagram for INCH tube



disc fully opened 90° medium: water at ambient temperature 20°C



For equipment in compliance with the European Directive ATEX 2014/34/EU





ANTISTATIC DEVICE (optional on request)

To eliminate possibility of static electrical charges within the valve, a grounding connection (anti-static device) is mounted on the side of the forged disc/stem as shown to ensure electrical continuity for the entire butterfly valve.

Specific and supplementary mark according to Directive 2014/34/EU ATEX indicating in order the specific symbol for the explosive. The unit number and the category to which it belong, the type of atmosphere in which the product can be used and temp. class.

Declaration CE of conformity according to evaluation form "A" (ENCLOSURE X European Directive 2014/34/EU ATEX)

VFF-BW Tank bottom Butterfly valve

APPLICATION

The **VFF-BW** tank bottom butterfly valve are on/off routing tank bottom valves, incorporates all the advantages of standard VF

Available in manual/pneumatically operated.

Due to their large opening areas, minimize turbulence, offer low pressure drop and provide gentle treatment of low and medium viscosity products. The handle mechanically locks the valve in its open or closed position.

For special applications on existing reactors, we also manufactures special adaptor plates in order to accommodate customer request.

The valve consists of one standard valve body halve, welding plate, valve shutter/stem, and seal gasket, assembled by means of bolts. Thanks to its special design, the welding plate is an integral welded part of the tank surface, preventing the stagnation of the media.

BENEFITS OVER CONVENTIONAL TOV

Valves mounts flush with the inside vessel wall, minimizing dead leg Higher CV with practically a full bore No pressure drop Simple quarter-turn opening

STANDARDS

The **VFF-BW** tank bottom butterfly valve is a process accessory to be used for clear or viscous media from group 2 in accordance with Pressure Equipment Directive PED 2014/68/EU are CE compliant under the SEP "Sound Engineering Practice" Article 4 - Paragraph 3

PRESSURE / TEMPERATURE RATING

Min / Max working pressure -1 / 10 bar (g) Min / Max working temperature 0°C / 150°

Special executions available on request : Welding plate with radius or bigger different diameter / thickness, extended tube for orbital welding or with bend. For special applications, we manufactures special adaptor plates, when replacing a conventional flush tank valve, with a flush tank butterfly valve and also to ship the plate independently from the valve, in order to accommodate customer requests.

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Butterfly Valve VFC

The butterfly valve **VFC** are on/off routing valves, available for manually operated system.

The valve consists of two valve body halves, valve shutter/stem, and seal gasket, assembled by means of clamp and can be easily and quickly dismantled and reassembled without tools in less than half the time required for butterfly valves secured with screws and nuts.

The handle is welded onto the clamp body.

PRESSURE / TEMPERATURE RATING

Min / Maxworking pressure-1/+10 bar (g)Min / Maxworking temperature0°C / 150°C

SEAT MATERIAL

White silicone complying with FDA guidelines

OPERATOR

Pull and turn manual handle available only (quarter-turn for open/close)

SURFACE FINISH

Internal body surfaces 0,5 micron Ra or better External mirror polished

CONNECTIONS

Interchangeable body heads are available clamped ASME-BPE, butt weld OD





Ordering information

To specify the part completely, start with the product description and select the additional options as shown below:

Value		Option Sk	an Valve C		Intellion		Size Connection	Outlet Connectio		Rate	sun -X	Actuality SAA	Box Servor 11	Frid		Material	
	VFS		- 1	50) A			М	A					N	-11	1 A	
Butterfly Valve					075	100		150 20	200	250 300		400	600	800	A10	Surface Finish	
VFS standard valve		Size Valve		3/4" 1"		1'1/2		2°	2'1/2	3"	4*	6"	8"	10"	11	≤ 0,5 µm	
VFC	fast disassent	sbly	Size Connection		H	ILE SIZ		M N		0 P	2-3"-4" R	v	w	×	81	≤ 0,2 µm	
VFF	tank bottom				3/4*	1"	11		2	2'1/2	3*	4*	6*	8"	10"	51	≤ 0,5 µm + Electropoli
on req	on request		In/Out Connection				Seals					Actuator				on request	
Option			100000000000000000000000000000000000000	Clarre	Samp Buttweld		X S	Silicone			M2P	Manual 2 position on/off			Materials		
	Standard Safe S	upply	ASME / BS	A	В		E Epdm (up to 2'only)			v)		MMP	Manual 12 position			A	AISI 316L-1.4404
A	ATEX execut	tion	DIN (*) C ISO (*) H SMS (*) J DIN 11851 female J DIN 11851 malefin J				VE	Film (up to 4"only)		MEI	Manual 2 posi	nual 2 position on/off			B 1.4435		
											SAA	pneumatic simple effect			C C22 Hastelloy		
					К		Box Sensor					DAA	pneumatic double effect			D C276 Hastelloy	
					O N		-				RCE	pneumatic simple effect inox vertical			on request		
												W	for actuator (flange ISO 5211)				
			(*) and other on req	nd other on request.			13 Box with n.2 inductive ATEX					bare shaft					
			1		on			request			other o	other on request					



Sanitary Sampling Valves

SANITARY SAMPLING VALVES



ASEPTIC SAMPLING BOTTLE

Butterf

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BUTTERFLY VALVES

ER

TANK AND IN-LINE CONNECTIONS



BENUTYPACK

ASEPTIC TANK BOTTOM VALVES



DTS HEAT EXCHANGERS





HYGIENIC RUPTURE DISC

AT .



SPRING CHECK VALVES



SIGHT GLASS-FLOW INDICATOR



MAGNETIC MIXER



HIGH PURITY BALL VALVES



CLAMP FITTINGS



HIGH PURITY DIAPHRAGM VALVES



WASHING DEVICES



Get the information you need and more at info@aerreinox.it

