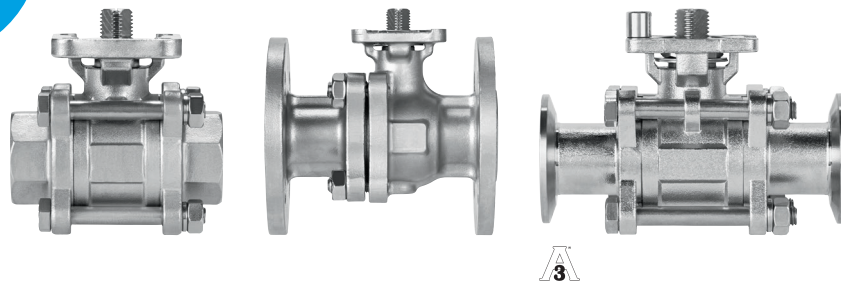


# Ball valves VZBE, VZBF and VZBD in stainless steel

FESTO

All from  
a single  
source



## For every application!

### Highlights

- CRN approval
- Stainless steel design
- Many connection options
- Lockable hand lever
- Blow-out proof shaft
- Flange hole pattern to ISO 5211
- VZBF:
  - API 607 Fire Safe approval
- VZBD:
  - Electropolished surfaces SFV4 (Ra 15 µinch, corresponds to Ra 0.4 µm)
  - PTFE seal with minimal dead space (PTFE cavity fillers)

Stainless steel ball valves are used wherever different media need to be controlled – in process automation as well as factory automation. With VZBE, VZBF and VZBD, Festo has rounded off the ball valve portfolio to help you find the right ball valve for a wide range of applications.

#### Ball valve VZBE

Highly flexible thanks to good media resistance.

- 2-piece, 2-way without ISO 5211, with lockable hand lever
- 3-piece, 2-way
- 3-way, L and T hole as horizontal design
- Threaded connection to ANSI B 1.20.1 (NPT)

#### Ball valve VZBF

The two-piece ball valve for liquid and gaseous media is easy to service. The Fire Safe design fulfills the requirements according to API 607.

- Antistatic design
- 2-piece, 2-way
- Flange connection to ANSI B16.5 class 150

#### Ball valve VZBD

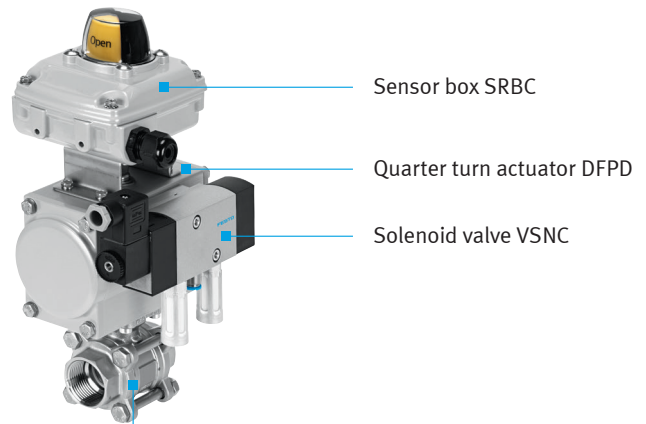
The ideal partner for the pharma and cosmetics industry:

- Seal with minimal dead space
- Electropolished surfaces
- FDA-compliant seal to FDA 21 CFR 177.1550
- 3-piece, 2-way
- Long welded ends to ASME-BPE, ISO 1127
- Clamp ferrule to ASME-BPE, DIN 32676-B

# Ball valves VZBE, VZBF and VZBD made of stainless steel

## Comprehensive range for the complete automation of process valves

Festo can offer the right solution for just about every application. And our strengths in the area of process valves are outstanding. An extensive and matching range of quarter turn actuators, pilot valves and sensor boxes suitable for use even in potentially explosive areas and safety-related applications round off the portfolio. Everything from a single source. Ask our experts!



Ball valve VZBE, manual



2-way ball valve VZBE



3-way ball valve VZBE



Ball valve VZBF



Ball valve VZBD, with long welded ends



Ball valve VZBD, with clamp ferrule ends

Technical data		VZBE			VZBF	VZBD	
Function		2-way, manual	2-way	3-way	2-way	2-way	2-way
Connection type		Thread to ANSI B 1.20.1 (NPT)			Flange to ANSI B16.5 class 150	Long welding ends to ASME-BPE and ISO 1127	Clamp ferrule to ASME-BPE and DIN 32676-B
Nominal size (DN)		1/4" ... 3"	1/4" ... 4"	1/4" ... 2"	1/2" ... 8"	1/2" ... 4" (ASME) 1/2" ... 2 1/2" (ISO)	1/2" ... 4" (ASME) 1/2" ... 2 1/2" (DIN)
Flange hole pattern		-	ISO 5211	ISO 5211	ISO 5211	ISO 5211	
<b>Information on materials</b>							
Housing		ASTM A351-CF8M			ASTM A351-CF8M	ASTM A351-CF3M (1.4409)	
Ball (solid)		ASTM A351-CF8M			ASTM A351-CF8M	ASTM A351-CF3M (1.4409)	
Ball (hollow)		ASTM A240-316 from DN 2 1/2"		-	ASTM A240-316 from DN 2"	-	
Shaft		ASTM A276-316			ASTM A276-316	ASTM A276-316	
Seals	Housing	PTFE			PTFE, RTFE, TFM1600	PTFE, TFM1600 (FDA 21 CFR 177.1550)	
	Shaft	FPM			FPM, CTFE	FPM, PTFE	
	Cavity fillers	-			-	PTFE (FDA 21 CFR 177.1550)	
Approvals		DGRL 2014/68/EU, CRN, ATEX (manufacturer declaration, except manual version), 3.1 material certificates on request			DGRL 2014/68/EU, CRN, ATEX (manufacturer declaration), 3.1 material certificates on request	DGRL 2014/68/EU, CRN, ATEX (manufacturer declaration), 3A (ASME), 3.1 material certificates on request	