

SPECIAL-BALL-VALVE
TYPE BL

Cavity free Bottom outlet ball valve

- ▶ Special individual manufacturing
- ▶ Exotic materials
- ▶ Short lead times



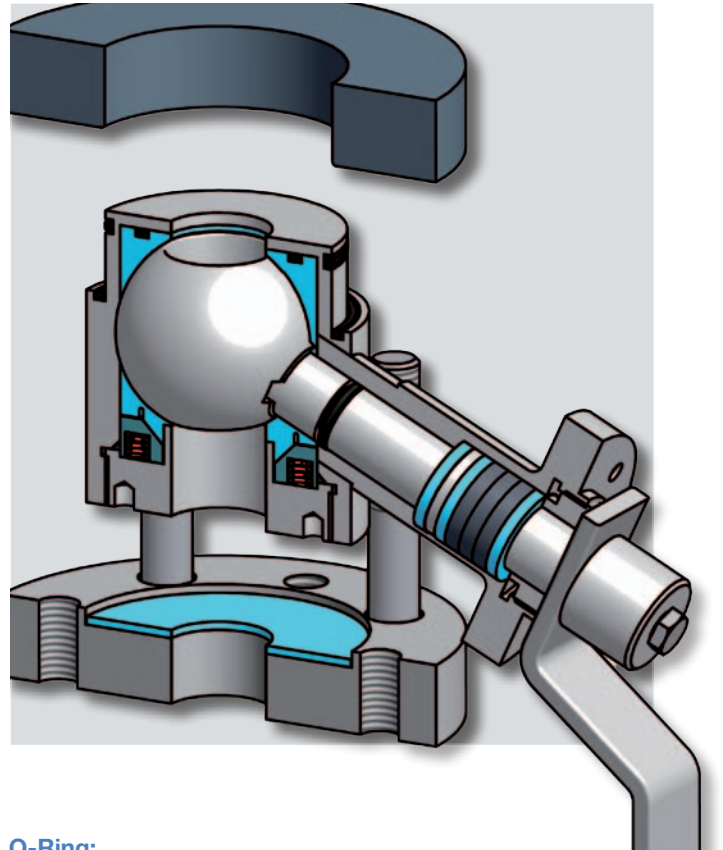
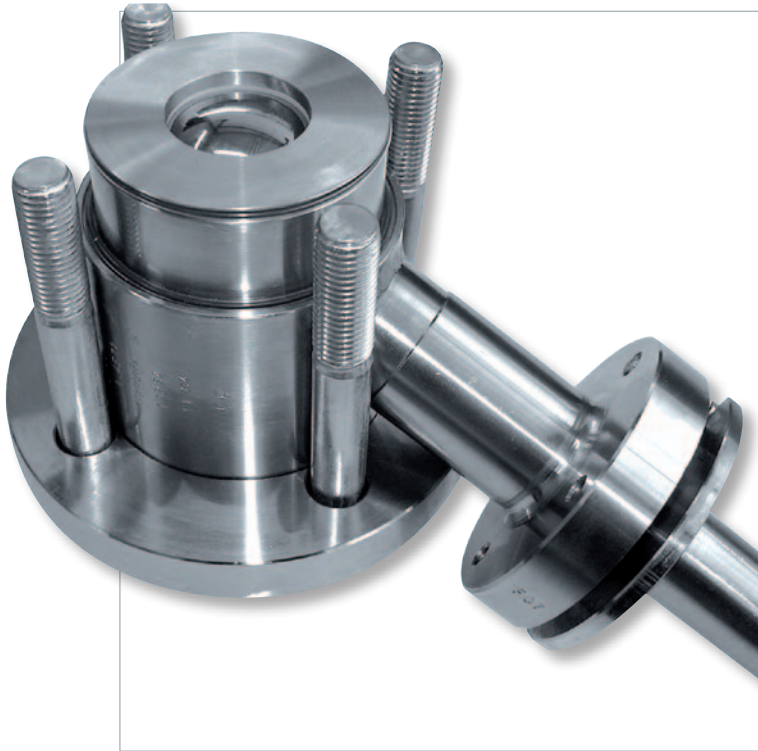
Size range 1/2" to 4"
Pressure max. 300 lb / sq.in.
Temperature range -50 °C to +500 °C



 made
in
Germany

YOUR PARTNER FOR CUSTOMIZING

Cavity free Bottom outlet ball valve



Applicable to:

Gaseous media, fluid, emulsion, syrup, paste etc.

Operating conditions:

max. 500 °C, max. 300 lb / sq.in., suitable for vacuum service, exceeding parameters on request.

Design:

cavity free, low sump area, angled stem design, adjustable and maintenance free stem sealing, additional specific spring loaded sealing system, sealing pressure adjustable by means of spiral coil springs.

Additional:

Heating jacket, flushing connection, antistatic-design, Fire-Safe design, stem sealing acc. to TA-Luft, sealing material with FDA-Conformity, PTFE adapter for laboratory bottle.

Material:

316 Ti, 316 L

Special material:

alloy 904 L, 318 LN, alloy 22, alloy 59, alloy c-4, titanium, zirconium etc.

Ball sealing:

PTFE, PTFE fiber glass, PTFE carbon, TFM, PEEK, PEEK fiber glass, impregnated activated carbon, metallic sealing system.

O-Ring:

Viton, EPDM, FEP-Viton, FEP-Viton, FEP Silicon, Kalrez etc.

Stem sealing:

PTFE, pure graphite and additional o-ring

Springs:

316 Ti, alloy c-4

Connection to vessel:

Pad flange acc. to DIN 28117 / 28142 and ASME, pad flange bore must be increased to insert diameter of ball valve. Pad flange contour can be adapted to vessel shape.

Connection ball valve:

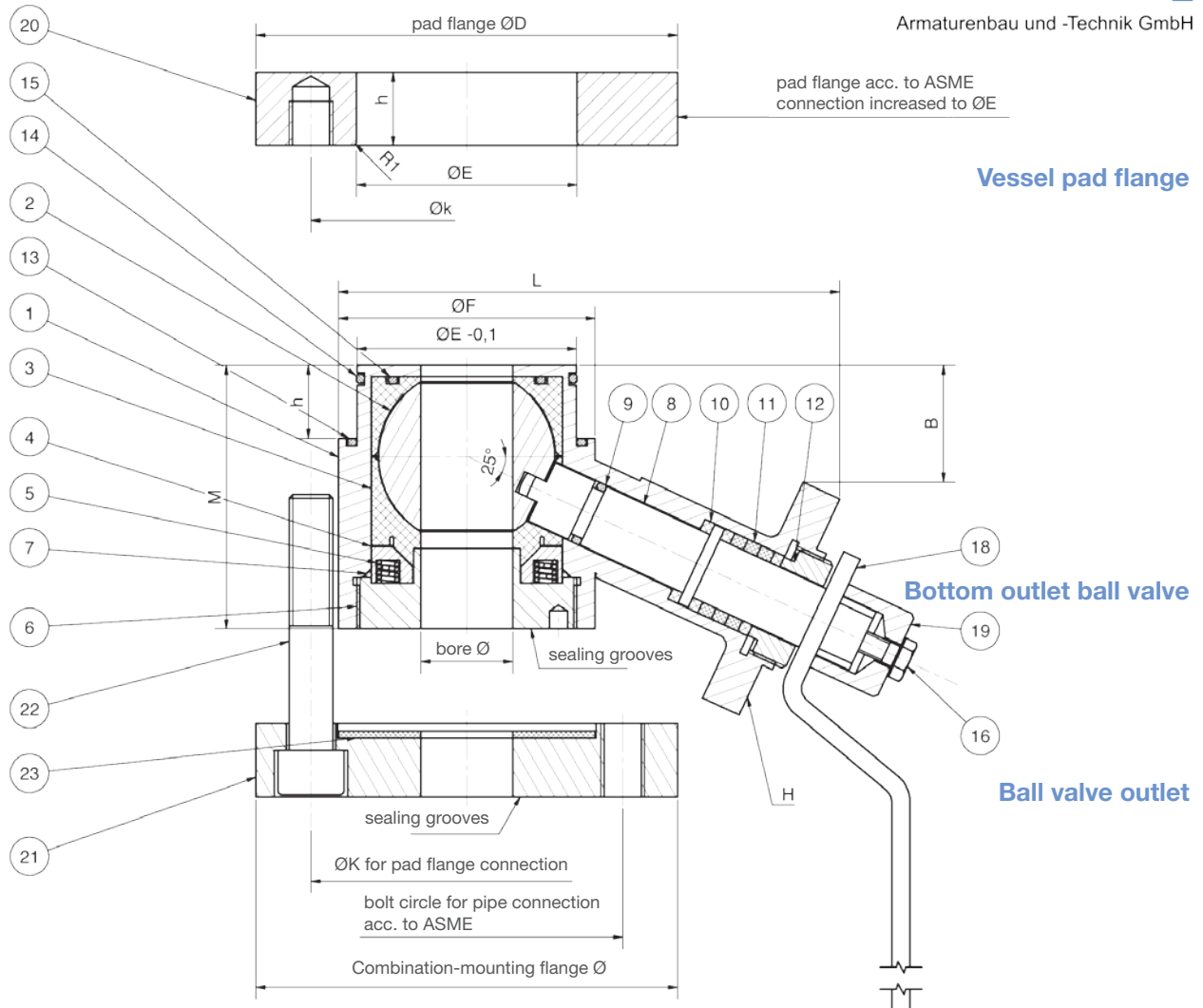
Combination mounting flange
Welding neck flange acc. to ASME B16.5
Clamp acc. to ASME,
Thread acc. to ASME,
Weld end acc. to ASME,
PTFE adapter for laboratory bottle.

Tightness:

acc. to API 598

Actuator mounting flange:

acc. to ISO 5211



Vessel pad flange

Bottom outlet ball valve

Ball valve outlet

Pos.	Name	e.g. material	Notice
01	body	316L	
02	ball	316L	x
03	seal half	PTFE / 25% GF	x
04	pressure ring	316L	
05	coil spring	316Ti	
06	screw ring	316L	
07	o-ring	EPDM	x
08	stem	316L	
09	o-ring	EPDM	x
10	seal ring	PTFE	x
11	seal ring	graphite	x
12	gland nut	316L	

Pos.	Name	e.g. material	Notice
13	o-ring	EPDM	x
14	o-ring	EPDM	x
15	o-ring	EPDM	x
16	hex. screw	A2	
17	hand lever stop	316L	
18	hand lever	316L	
19	hand lever head	316L	
20	vessel pad flange	316L	
21	combination mouting flange	316L	
22	tightening screw	A2	
23	flat gasket	PTFE	
-	-	-	

x = space parts

ATEC Dimensions

DN	ØE	ØF	M	h	L	B	ØK	ØD	H
1/2"	44	52	60	14	78	23	65	95	F04
1"	60	70	72	20	102	32	85	115	F05
1 1/2"	80	92	100	30	139	43	110	150	F07
2"	100	108	110	30	146	56	125	165	F07
2 1/2"	120	128	130	30	153	70	145	185	F07
3"	130	142	140	30	140	48	160	200	F07
4"	150	163	168	30	149	64	180	220	F07

ADVANTAGES

- ▶ Almost no cavity between ball and housing
- ▶ Almost no residual product in the ball valve housing
- ▶ Approximately same torque at different temperatures
- ▶ Longer life time through spring loaded sealing system
- ▶ Cavity free ball valve suitable for the use as bottom outlet ball valve in stirrer vessel
- ▶ Special design sizes
- ▶ Short delivery time of customized ball valves and spare parts



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The best way
to a reliable valve is
to customize the valve
to the process