

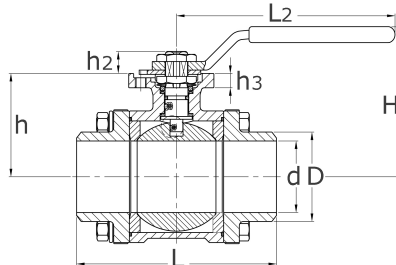
ball valve butt weld

[short name: K3.PSS\\*](#)

TA-air, full bore

3-piece, PN 63

for directly actuator mounting



### technical product sheet

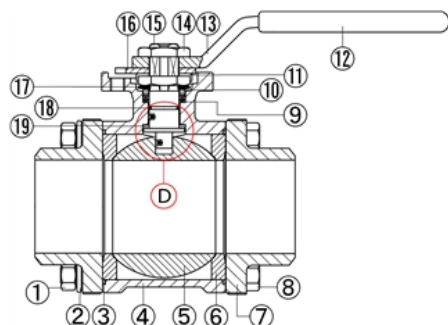
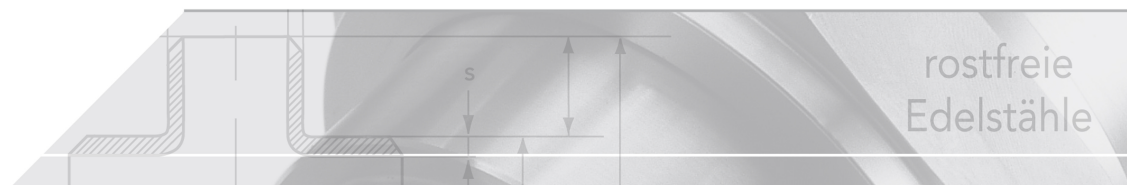
DN	Zoll	D	d	L	H	h	h2	h3	L2	F	kg
8	1/4"	13,5	8	66	63,0	40,3	8,0	6,0	120	F03/F04	0,600
10	3/8"	17,2	10	66	63,0	40,3	8,0	6,0	120	F03/F04	0,625
15	1/2"	21,3	15	66	63,0	40,3	8,0	6,0	120	F03/F04	0,660
20	3/4"	26,9	20	75	69,0	45,0	9,0	6,0	120	F03/F04	0,790
25	1"	33,7	25	85	76,0	47,5	10,0	7,5	148	F04/F05	1,140
32	1 1/4"	42,4	32	100	84,0	55,5	11,0	7,5	148	F04/F05	1,850
40	1 1/2"	48,3	38	140	99,0	65,3	14,0	8,5	178	F05/F07	2,890
50	2"	60,3	50	150	108,0	73,0	14,0	8,5	178	F05/F07	4,233
65	2 1/2"	76,1	65	170	158,0	105,0	17,0	10,0	325	F07/F10	9,800
80	3"	88,9	76	180	165,0	111,5	17,0	10,0	325	F07/F10	12,900
100	4"	114,3	100	189	189,0	136,0	22,0	12,0	325	F10/F12	23,600

available material: V4A

Industrial valves &gt; ball valves &gt; butt weld ends &gt; TA-air

full description:

ball valve butt weld  
TA-air, full bore  
3-piece, PN 63  
for directly actuator mounting  
- mounting pad acc. ISO 5211  
- anti-static  
- ATEX



## PARTS LIST

No.	Designation	Material
1.	Nut (4x)	V2A (AISI 304)
2.	Spring washer (4x)	V2A (AISI 304)
3.	Housing seal	PTFE
4.	Housing	V4A (CF8M / 1.4408)
5.	Ball	V4A (CF8M / 1.4408)
6.	Ball seal (2x)	RTFE
7.	Threaded piece	V4A (CF8M / 1.4408)
8.	Screw (4x)	V2A (AISI 304)
9.	Shaft seal	see detailed view (Img. 3)
10.	Shaft ring	V2A (AISI 304)
11.	Locking device	V2A (AISI 304)
12.	Hand sleeve	PVC, blue
13.	Handle	Stainless Steel
14.	Nut	V2A (AISI 304)
15.	Control shaft	V4A (CF8M / 1.4408)
16.	Stop	V2A (AISI 304)
17.	Belleville washer (2x)	50CrV4
18.	O-ring	Viton
19.	Trust washer	PTFE
D	anti-static device	see detailed view (Img. 4)

## ISO-Top

DN	d2	d3	d4	r1	r2	V	A
8	31,0	36	42	2,75	2,75	9	42
10	31,0	36	42	2,75	2,75	9	42
15	31,0	36	42	2,75	2,75	9	42
20	31,0	36	42	2,75	2,75	9	42
25	35,5	42	50	2,75	3,50	11	50
32	35,5	42	50	2,75	3,50	11	50
40	56,0	50	70	3,50	4,50	14	70
50	56,0	50	70	3,50	4,50	14	70
65	70,0	70,0	102,0	4,5	5,5	17	100
80	70,0	70,0	102,0	4,5	5,5	17	100
100	100,0	102,0	125,0	5,5	6,5	22	125

## Torque (N-m)

DN	Working torque	Breakaway torque
8	2,47	3,64
10	2,47	3,64
15	2,47	3,64
20	4,0	6,11
25	4,29	9,88
32	11,7	15,6
40	14,0	22,0
50	19,0	26,8
65	30,6	89,2
80	65,0	97,0
100	70,0	116,0

## Features

Designation	Version
ISO top	acc. to ISO 5211
anti-static	Certificate acc. to ATEX
TA-air	TÜV Certificate acc. to ISO 15848-1

## Mounting

Before welding the ends of the connections,  
the middle section of the ball valve must be disassembled to prevent damaging the seals.

1. Clamp the valve carefully in a vise. You can prevent damage to the ends of the housing using protective wedges. Unscrew the hex-head nuts crosswise and pull the screws out of the housing. Remove the middle section of the ball valve. Make sure that the seals and the ball do not fall out of the housing. Place the parts aside with care. You should mark the ends order to be able to determine which ends are for connection later during reassembly.

2. Mount a piece of tube with a length equal to that of the middle section between the ends of the connections.

3. Allow the ends of the connections to cool off adequately before you install the middle section.

Remove the piece of tube mentioned above.

Push the middle section of the ball valve between the ends of the connection.

If necessary, orient the middle section so it attaches to the corresponding ends of the connection.

Make sure that all seals are seated properly and that there is no dirt or contamination on the seals or the ball.

Push the hex-head screw through the holes in the ends of the connection. Tighten the nuts evenly by tightening them crosswise. Note the maximum torque of the screws when tightening.

Test the function of the ball valve. Test all connections to ensure they do not leak.

## Maintenance and inspection

The ball valves are maintenance-free under normal operating and ambient conditions. However, the following inspections should be performed at regular intervals depending on the frequency of activation and the operating conditions:

### > Check the spindle seal for leaks

If the seal is failing, then the stem packing must be tightened at operating pressure.

Tighten the nut until the spindle seal is tight again and does not leak any more.

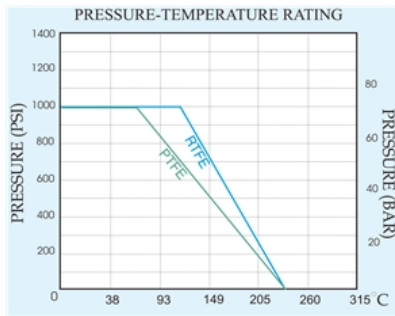
Make sure that the ball valve is still easy to operate.

### > Testing the ball seal for leaks

If the seal is not tight enough, the ball and/or the seal set of the ball valve can be replaced.

For 3-part ball valves, you only need to remove the middle part of the ball valve.

*You absolutely must follow our installation and operating instructions!*

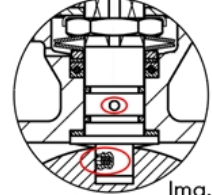
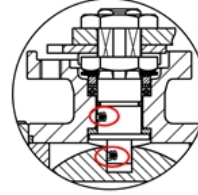
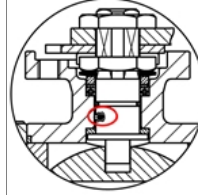


#### Anti-static device

DN 8 - DN 32

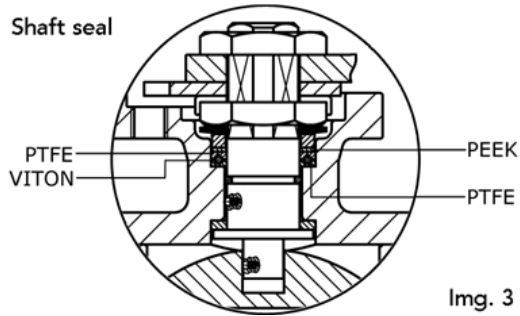
DN 40 + DN 50

DN 65 - DN 100



Img. 4

#### Shaft seal



Img. 3



als 3D-Modell verfügbar

