

ABO valve

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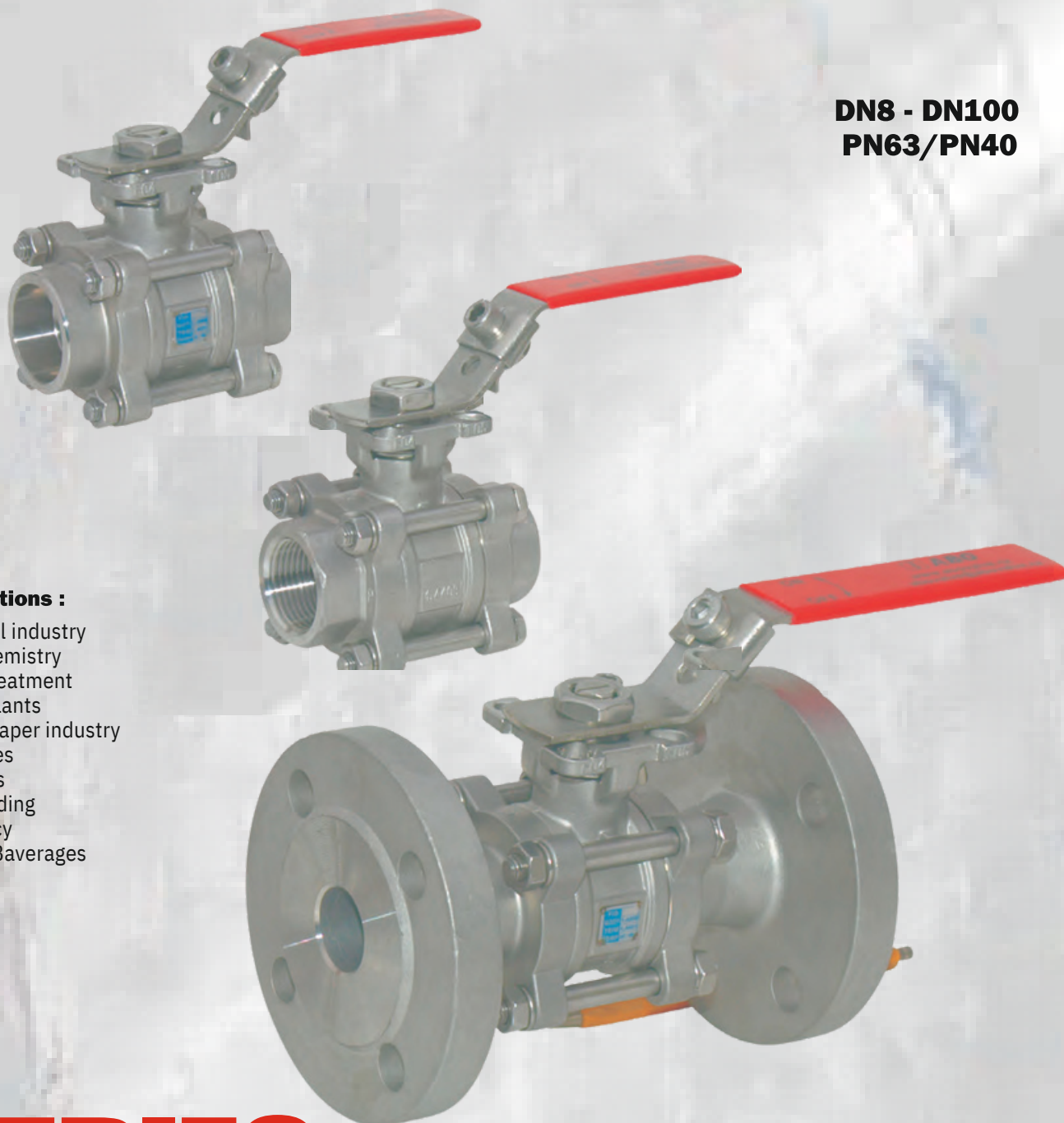


BALL VALVES

**DN8 - DN100
PN63/PN40**

Applications :

Chemical industry
Petrochemistry
Water treatment
Power plants
Pulp & Paper industry
Refineries
Oil & Gas
Shipbuilding
Pharmacy
Food & Beverages



SERIES ART. xxx

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ART. 940

ART. 941

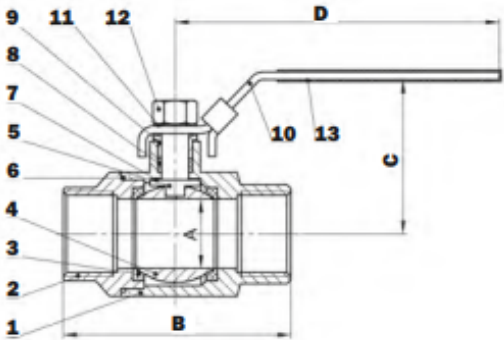
Czech Industrial Valve Manufacturer

ART. 940

Stainless steel ball valve - 2-piece
ball valve - full bored body - F.F.
thread (BSPP / BSPT) - DN 8-25: PN
63 / DN32-50: PN40 - thread end:

-
-

ANSI B 1.20.1 (NPT)
ISO 7/1 (Rc/Rp)
ISO 228/1 (G)



OPERATING TORQUES

DN	8	10	15	20	25	32	40	50
Nm	1,76	1,76	2,65	8,04	9,51	13,24	17,16	21,27

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B ± 2	C	D
8	10	50	41,4	80
10	12,5	60	41,4	80
15	15	70	45	80
20	20	80	54,7	100
25	24,5	93	65,3	125
32	32	103	70,9	125
40	38	123	84	160
50	50		93,3	160

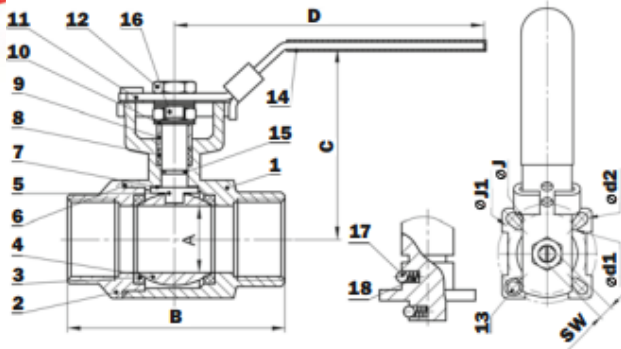
Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL	QUANTITY
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	1
3	Seat	PTFE + 15% G.F.	2
4	Ball	CF8M/316	1
5	Steam	SUS 316	1
6	Gasket	PTFE	1
7	Gasket	PTFE	1
8	Seal	PTFE	1
9	Packing gland	SUS 304	1
10	Handle	SUS 304	1
11	Lever spring washer	SUS 304	1
12	Lever nut	SUS 304	1
13	Plastic coating	PVC	1

ART. 941

Stainless steel ball valve
• 2-pieces with ISO
flanged connections
• full bored body
• F.F. thread (BSPP / BSPT)
• PN 63
• thread end:

ANSI B 1.20.1 (NPT)
ISO 7/1 (Rc/Rp)
ISO 228/1 (G)



OPERATING TORQUES

DN	15	20	25	32	40	50
Nm	4,12	4,61	9,02	9,61	12,55	21,27

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B	C	D	H	L	J	J1	d1	d2	SW
8	11,1	57	72,7	110	42,3	8	42	50	6	7	9
10	11,1	57	72,7	110	42,3	8	42	50	6	7	9
15	15	57	70,7	110	42,3	8	42	50	6	7	9
20	20	57	70,7	110	44,8	8	42	50	6	7	9
25	24,5	71	72,7	110	54	10	42	50	6	7	11
32	32	83	83,5	135	59,2	10	50	70	7	9	11
40	38	91	100	165	71,3	10	50	70	7	9	11
50	50	104	100,8	165	82,9	14,8	50	70	7	9	14
		123	118	165							

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL	QUANTITY
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	1
3	Seats	PTFE + 15% G.F.	2
4	Ball	CF8M/316	1
5	Steam	SUS 316	1
6	Gasket	PTFE	1
7	Gasket	PTFE + 15% G.F.	1
8	Seal	PTFE	1
9	Gland ring	SUS 304	2
10	Belleville spring washer	SUS 301	2
11	Handle	SUS 304	1
12	Lever nut	SUS 304	2
13	Lever nut	SUS 304	1
14	Stop screw	PVC	1
15	Plastic coating	VITON	1-2
16	O-ring	SUS 304	1
17	Locking tab	SUS 316	2
18	Static device	SUS 316	2
	Spring		

ART. 942

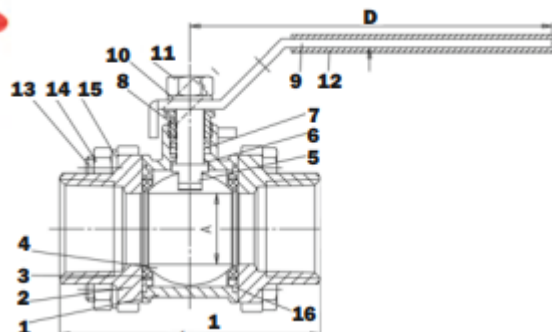
ART. 943



ART. 942

- Stainless steel ball valve
- 3-piece ball valve
- full bored body
- F.F. thread (BSPP / BSPT)
- DN 8-25: PN 63 / DN32-50: PN40
- thread end:

ANSI B 1.20.1 (NPT)
ISO 7/1 (Rc/Rp)
ISO 228/1 (G)



OPERATING TORQUES

DN	8	10	15	20	25	32	40	50
Nm	1,76	1,76	3,92	5,39	7,65	14,22	19,14	22,06

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

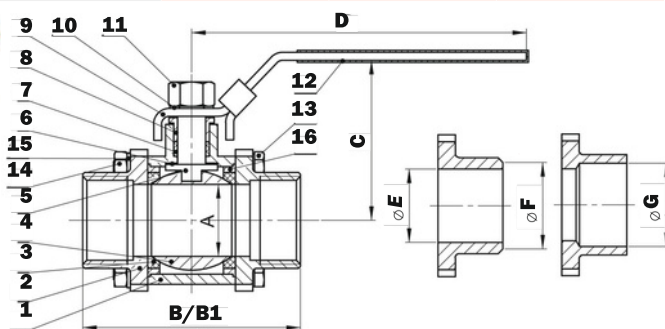
DN	A	B ± 2	C	D	E	F	G	B1 ± 2
8	10	50	41,4	80	10	13	14	70
10	12,5	60	41,4	80	12,5	13	18	75
15	15	80	45	80	16	17	22	90
20	20	90	54,7	100	20	22	27,5	100
25	24,5	110	65,3	125	24,5	28	34,5	110
32	32	120	70,9	125	32	37	43	125
40	38	140	84	160	38	43	49	150
50	50		93,3	160	50	54	61,5	

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL QUANTITY ART. 942	QUANTITY
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	2
3	Seat	PTFE + 15% G.F.	2
4	Ball	CF8M/316	1
5	Steam	SUS 316	1
6	Gasket	PTFE	1
7	Seal	PTFE	1
8	Packing gland	SUS 304	1
9	Handle	SUS 304	1
10	Lever spring washer	SUS 304	1
11	Lever nut	SUS 304	1
12	Plastic coating	SUS 304	1
13	Bolts	VINYL	4
14	Bolts nuts		4
15	Spring washer		4
16	Body seal		2
		SUS 304	
		SUS 304	
		SUS 304	
		PTFE + 15% G.F.	

ART. 943

- Stainless steel ball valve
- 2-pieces type
- full bored body
- welded pipe connection
- DN 8-25: PN 63
- DN32-50: PN40
- welded end:
EN 12627



OPERATING TORQUES

DN	8	10	15	20	25	32	40	50
Nm	1,76	1,76	3,92	5,39	7,65	14,22	19,14	22,06

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B ± 2	C	D	E	F	G	B1 ± 2
8	10	50	41,4	80	10	13	14	70
10	12,5	70	41,4	80	12,5	13	18	75
15	15	90	45	80	16	17	22	90
20	20	100	54,7	100	20	22	27,5	100
25	24,5	110	65,3	125	24,5	28	34,5	110
32	32	125	70,9	125	32	37	43	125
40	38	150	84	160	38	43	49	150
50	50		93,3	160	50	54	61,5	

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL QUANTITY ART. 943	QUANTITY
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	2
3	Seat	PTFE + 15% G.F.	2
4	Ball	CF8M/316	1
5	Steam	SUS 316	1
6	Gasket	PTFE	1
7	Seal	PTFE	1
8	Packing gland	SUS 304	1
9	Handle	SUS 304	1
10	Lever spring washer	SUS 304	1
11	Lever nut	SUS 304	1
12	Plastic coating	SUS 304	1
13	Bolts	VINYL	4
14	Bolts nuts		4
15	Spring washer		4
16	Body seal		2
		SUS 304	
		SUS 304	
		SUS 304	
		PTFE + 15% G.F.	

ART. 944

ART. 945

Czech Industrial Valve Manufacturer

ART. 944

Stainless steel ball valve

- 2-pieces with ISO flanged connection
- full bored body
- F.F. thread (BSPP / BSPT)
- PN63
- thread end:

ANSI B 1.20.1 (NPT)
ISO 7/1 (Rc/Rp)
ISO 228/1 (G)



OPERATING TORQUES

DN	15	20	25	32	40	50
Nm	3,73	5,10	6,57	9,61	16,47	32,16

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B	B1	C	D	E	F	F1	G	J	J1	SW	d1	d2	H	L
8	11,1	75	75	70,9	110	14,2	13	17,2	25,2	36	42	9	6	6	42,3	8
10	11,1	75	75	70,9	110	17,7	13	17,2	25,2	36	42	9	6	6	42,3	8
15	16	75	75	70,9	110	21,9	17	22,4	25,2	36	42	9	6	6	42,3	8
20	20	90	90	73,4	110	27,2	22	28,2	27,7	36	42	9	6	6	44,8	8
25							28									
32	24,5	100	100	84,1	135	34	37	33,7	33	42	50	11	6	7	54	10
40	32	110	110	89,3	135	42,7	43	44	41,2	42	50	11	6	7	59,2	10
50	38	120	125	109,5	165	48,8	54	50,8	49,3	50	70	14	7	9	73,5	14,8
	50	140	150	118,9	165	61,3		62,6	63,6	50	70	14	7	9	82,9	14,8

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL QUANTITY ART. 944	QUANTITY
A	A	A	1
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	2
3	Seats	EN10213 1,4408	2
4	Ball	PTFE + 15% G.F.	1
5	Steam	CF8M/316	1
6	Body seal	SUS 316	1
7	Gasket	PTFE	1
8	Seal	PTFE + 15% G.F.	1
9	Gland ring	PTFE	2
10	Belleville spring washer	SUS 304	1
11	Handle	SUS 301	1
12	Lever nut	SUS 304	1
13	Stop screw	SUS 304	1
14	Plastic coating	SUS 304	1
15	Plastic coating	SUS 304	4
16	Bolts	PVC	4
17	Spring washer	SUS 304	4
18	O-ring	SUS 304	1-2
19	Locking tab	SUS 304	1
20	Static device	VITON	2
21	Static device	SUS 304	2
	Spring	SUS 316	
		SUS 316	

ART. 945

Stainless steel ball valve

- 3-pieces type with ISO flanged connections
- fullbored body
- welded pipe connection
- PN 63
- welded end:

EN 12627



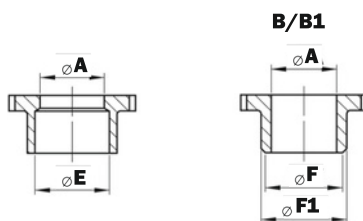
OPERATING TORQUES

DN	15	20	25	32	40	50
Nm	3,73	5,10	6,57	9,61	16,47	32,16

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B	B1	C	D	E	F	F1	G	J	J1	SW	d1	d2	H	L
8	11,1	75	75	70,9	110	14,2	13	17,2	25,2	36	42	9	6	6	42	8
10	11,1	75	75	70,9	110	17,7	13	17,2	25,2	36	42	9	6	6	42	8
15	16	75	75	70,9	110	21,9	17	22,4	25,2	36	42	9	6	6	42	8
20	20	80	90	73,4	110	27,2	22	28,2	27,7	36	42	9	6	6	45	8
25							28						6			10
32	24,5	90	100	84,1	135	34	37	33,7	33	42	50	11	6	7	54	
40	32	110	110	89,3	135	42,7	43	44	41,2	42	50	11	6	7	59	10
50	38	120	125	110	165	48,8	54	50,8	49,3	50	70	14	7	9	74	15
	50	140	150	119	165	61,3		62,6	63,6	50	70	14	7	9	83	15

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.



ITEM	PART NAME	MATERIAL QUANTITY ART. 945	QUANTITY
A	A	A	1
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	2
3	Seats	EN10213 1,4408	2
4	Ball	PTFE + 15% G.F.	1
5	Steam	CF8M/316	1
6	Body seal	SUS 316	1
7	Gasket	PTFE	1
8	Seal	PTFE + 15% G.F.	1
9	Gland ring	PTFE	2
10	Belleville spring washer	SUS 304	1
11	Handle	SUS 301	1
12	Lever nut	SUS 304	1
13	Stop screw	SUS 304	1
14	Plastic coating	SUS 304	1
15	Plastic coating	SUS 304	4
16	Bolts	PVC	4
17	Spring washer	SUS 304	4
18	Bolts nuts	SUS 304	1-2
19	O-ring	SUS 304	1
20	Locking tab	SUS 304	2
21	Static device	VITON	2
	Spring	SUS 304	
		SUS 316	
		SUS 316	

ART. 946

ART. 947



ART. 946

- Stainless steel ball valve
- 2-pieces type with ISO flanged connection
 - PN40
 - flange connection: EN 1092*

*(ANSI / ASME B16.5 upon request)



OPERATING TORQUES

DN	15	20	25	32	40	50
Nm	4,12	4,22	6,37	12,55	16,37	21,76

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN	A	B	C	D	E	F	G	HxN	L	L1	I	P	Q	J	J1	d1	d2	SW
15	16	45	65	95	89	114		16	14x4	115 130	2	54	8	36	42	6	6	9
20	20	58	75	105	89	114		18	14x4	120 150	2	56	8	36	42	6	6	9
25	25	68	85	115	101	187		18	14x4	125 160	2	62,5	12	42	50	6	7	11
32	32	78	100	140	112	187		18	18x4	130 180	2	72	12	42	50	6	7	11
40	40	88	110	150	116	222		18	18x4	140 200	3	78	14,8	50	70	7	9	14
50	50	102	125	165	125	222		20	18x4	150 230	3	87,2	14,8	50	70	7	9	14

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ART. 947

- Stainless steel ball valve
- 3-pieces type with ISO flanged connections
 - PN40
 - flange connection: EN 1092*

*(ANSI / ASME B16.5 upon request)



OPERATING TORQUES

DN	15	20	25	32	40	50	65	80	100
Nm	3,73	5,10	6,57	9,61	16,47	32,16	61,76	78,43	132,35

Note: The torque figures were measured under 0 pressure at room temperature (without safety factor).

DN A	A	B			C			D		SW	d1	d2	Q
		ANSI	PN16	PN40	ANSI	PN16	PN40	ANSI	PN16				
15	16	35	45	45	66,5	65	95	95	95	9	6	6	8
20	20	43	58	58	82,5	75	117	105	105	9	6	6	8
25	24,5	51	68	58	82,5	75	117	105	105	11	6	6	8
32			78	68	89	85	124	115	115	11	6	7	12
40	32	64	88	78	98,5	100	133	140	140	11	6	7	12
50	38	73	102	88	114,3	110	125	165	150	14	7	9	14,3
65	50	92	122	102	127	125	145	190	185	17	9	11	14,3
80		138	102	127	125	160	209	200	185	17	9	11	17,1
100	65	105	158	122	149,3	145	190	254	220	17	9	11	17,1
	80	127		138	168	160				200			17,1
	100	157		160	200	180				235			

DN	E	G		I		H x N			K	L		J	J1	
		ANSI	PN16 PN40	ANSI	DIN	ANSI	PN16 PN40	ANSI		DIN				
15	42,3	14,2	14	16	1,6	2	16x4	14x4	14x4	25,2	139,7	130	36	42
20	44,8	15,7	16	18	1,6	2	19x4	14x4	14x4	27,2	152,4	150	36	42
25	54	17,5	16	18	1,6	2	19x4	14x4	14x4	33	165,1	160	42	50
32	59,2	19	16	18	1,6	3	19x4	18x4	18x4	41,2	177,8	180	50	70
40	73,5	20,5	16	18	1,6	3	22x4	18x4	18x4	49,3	190,5	200	50	70
50	82,9	22,5	18	20	1,6	3	19x8	18x4	18x4	63,6	215,9	230	70	102
65	107	25,4	18	22	1,6	3	22x8	18x4	18x8	82,1	241,3	290	70	102
80	117	28,4	20	24	1,6		22x8	18x8	18x8	95,8	282,4	310		
100	132	31,8	20	24	1,6		22x8	18x8	18x8	117,8	304,8	350		

Note: Dimensions are mentioned in mm. Permissible deviations +/- 2 mm.

ITEM	PART NAME	MATERIAL QUANTITY Art. 946	QUANTITY
A	A	A	1
1	Body	EN10213 1,4408	1
2	End caps	EN10213 1,4408	2
3	Seats	EN10213 1,4408	2
4	Ball	PTFE + 15% G.F.	1
5	Steam	EN10213 1,4408	1
6	Body seal	EN10213 1,4408	1
7	Gasket	PTFE / GRAPHITE	1
8	Seal	PTFE + 15% G.F.	1/2
9	O-ring	PTFE / GRAPHITE	2
10	Gland ring	VITON	2
11	Belleville spring washer	SUS 304	1
12	Handle	SUS 301	2
13	Lever nut	SUS 304	1
14	Stop screw	SUS 304	1
15	Plastic coating	SUS 304	1
16	Looking tab	VINYL	1
17	Spring	SUS 304	1
18	Static device	SUS 316	4-6
19	Bolts	SUS 316	
		A2-10	

ITEM	PART NAME	MATERIAL QUANTITY Art. 947	QUANTITY
A	A	A	1
1	Body	EN10213 1,4408	2
2	End caps	EN10213 1,4408	2
3	Seats	EN10213 1,4408	2
4	Ball	PTFE + 15% G.F.	1
5	Steam	CF8M/316	2
6	Body seal	SUS 316	1
7	Gasket	PTFE	1
8	Seal	PTFE + 15% G.F.	2
9	Gland ring	PTFE	2
10	Belleville spring washer	SUS 304	1
11	Handle	SUS 301	1
12	Lever nut	SUS 304	1
13	Stop screw	SUS 304	1
14	Plastic coating	SUS 304	4/6
15	Bolts	PVC	8/12
16	Spring washer	SUS 304	8/12
17	Bolts nuts	SUS 304	1/2
18	O-ring	SUS 304	1
19	Locking tab	VITON	2
20	Static device	SUS 304	2
21	Spring	SUS 316	

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