Sutein

INTEC

Ball Valves

Our company is specialized in the design and manufacture of high-performance ball valves.

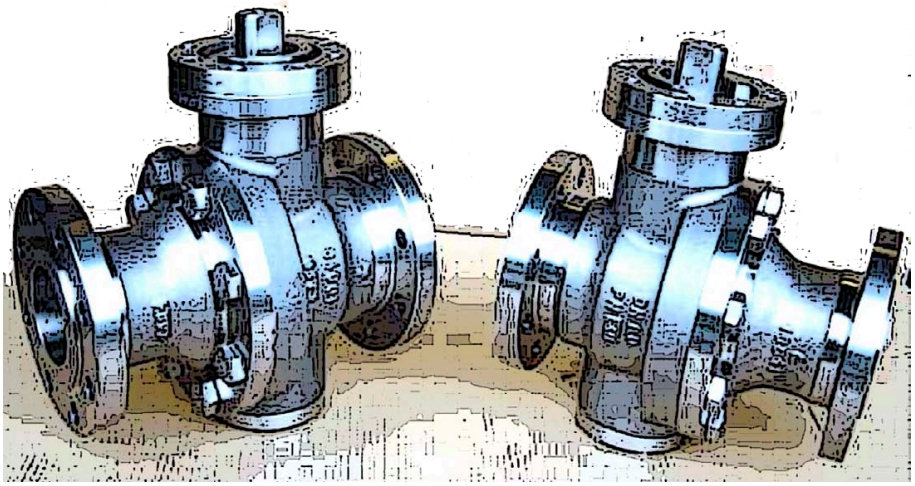
All valves are manufactured and tested in Spain in state-of-the-art facilities.

INTEC valves have all the available official certificates.

We manufacture valves from DN 15 to DN 500, PN 10 to PN 420½" up to 20", ASME 150 to ASME 2500.

Our factory keeps a large stock of castings and components.

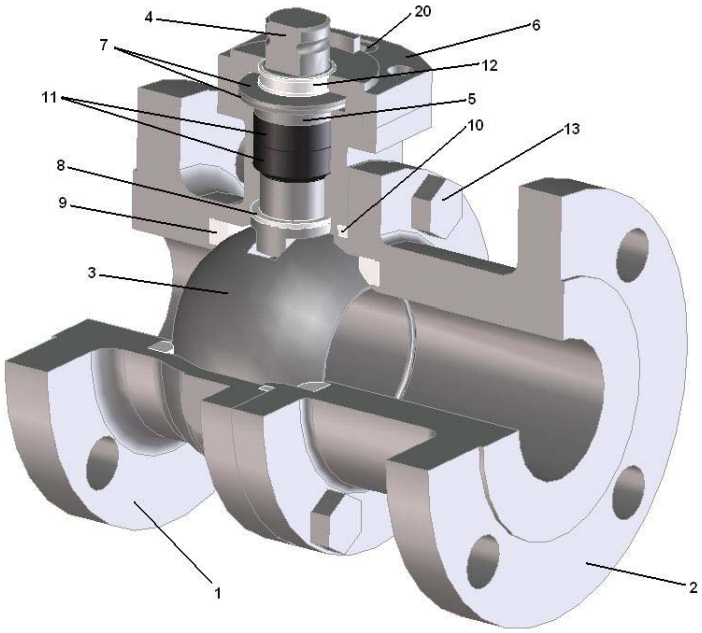
Every valve is pressure tested and then marked with a unique serial number, allowing each valve to be identified for future repairs or component shipment for replacement.

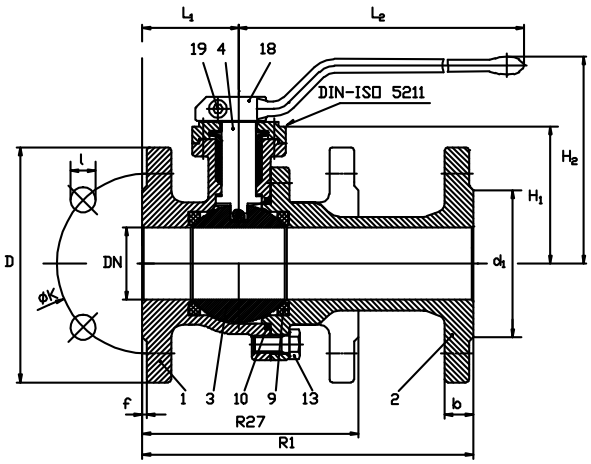


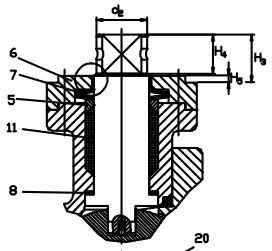
Sutein
INTEC
Ball Valves

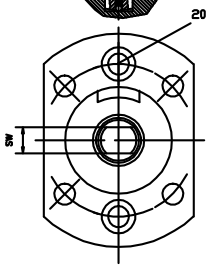
Sutein

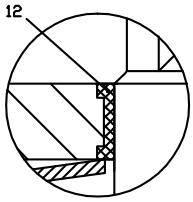
TYPE 112/125
DN-15/100 PN-16/40 R1/R27











#	COMPONENTS	MATERIAL
1	*Body*	1.4408
2	*Body end*	1.4408 / 1.4404
3	*Ball*	1.4408 / 1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	RPTFE
9	*Seat*	RPTFE
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
12	*Body seal*	PTFE
13	*Screw*	A2 – 70
18	*Handle*	1.0619 + ZINC
19	*Handle screw*	8.8 + ZINC
20	*Stopper screw*	A2 – 70

DIMENSIONS

PN16/PN40

DN	PN	R27	R1	D	d1xf	b	z x l	K	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	115	130	95	45x2	14/16	4x14	65	52.5	48	95	160	14	11	14	11	2	F05
20		120	150	105	58x2	16/18	4x14	75	56	50.5	101							
25		125	160	115	68x2		4x14	85	58	59	115	180	18	14	17	14		
32		130	180	140	78x2		4x18	100	62	64.5	125							
40		140	200	150	88x3		4x18	110	64.5	87	135	282	22	17	21.5	17	3	F07
50		150	230	165	102x3	18/20	4x18	125	67	94.5	145							
65	16	170	290	185	122x3	18	4x18	145	78	107	157							
65	40					22	8x18											
80	16	180	310	200	138x3	20	8x18	160	81.5	106.5	197	450	26	19	23.5	19		F10
80	40					24												
100	16	190	350	220	158x3	20	8x18	180	87	134.5	212							
100	40			235	162x3	24	8x22											

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

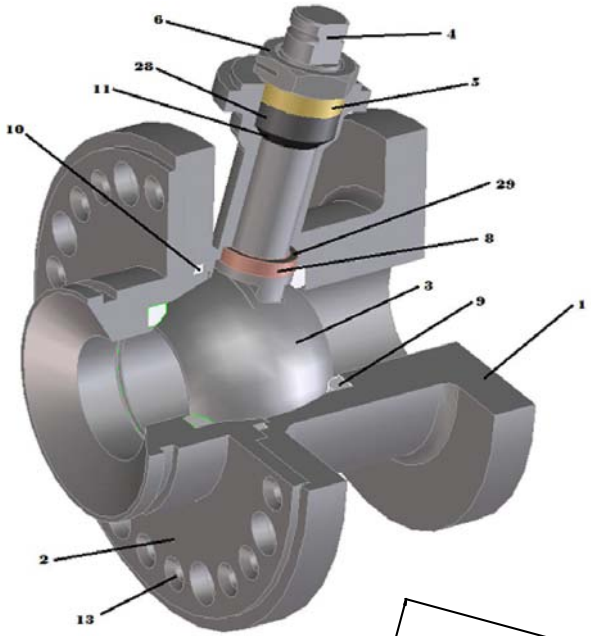
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE ANSI B16.10
- FLANGES ANSI B16.5

Official approvals

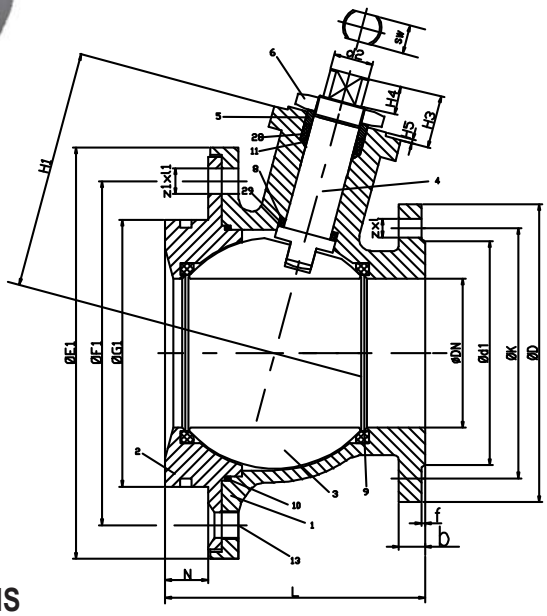
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

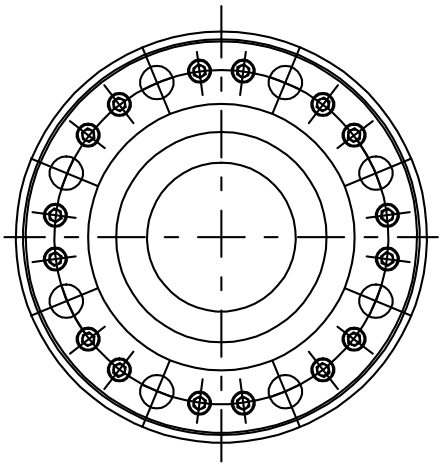
Sutein

TYPE 112 FC (TANK BOTTOM)



#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	PEEK
6	Nut	A2 – 70
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screw	A2 – 70
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE





DIMENSIONS

DN	Brida al tanque	PN	L	D	d1xf	b	z x l	K	N	G1	F1	E1	z1xl1	H1	d2	SW	H3	H4	H5	ISO
25	50	16	120*	115	68x2	18	4x14	85	35	69	125	165	4x18	118.5	18	14	26.5	14	2	F05
50	80		149	165	102x3	18	4x18	125	35	94	160	200	8x18	118.5	22	17	32.5	17	3	F07
80	100		162	200	138x3	20	8x18	160	35	129	180	220	8x18	144.5	26	19	37.5	19		F10
100	150		180	220	158x3	20	8x18	180	40	179	240	285	8x22	174						
150	200		240*	285	212x3	22	8x22	240	40	233	295	340	12x22	206	33	24	42.5	24		F12
150	250		240*	285	212x3	22	8x22	240	50	278	355	405	12x26							

* NON-STANDARD DISTANCE BETWEEN FLANGES

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE ANSI B16.10
- FLANGES ANSI B16.5

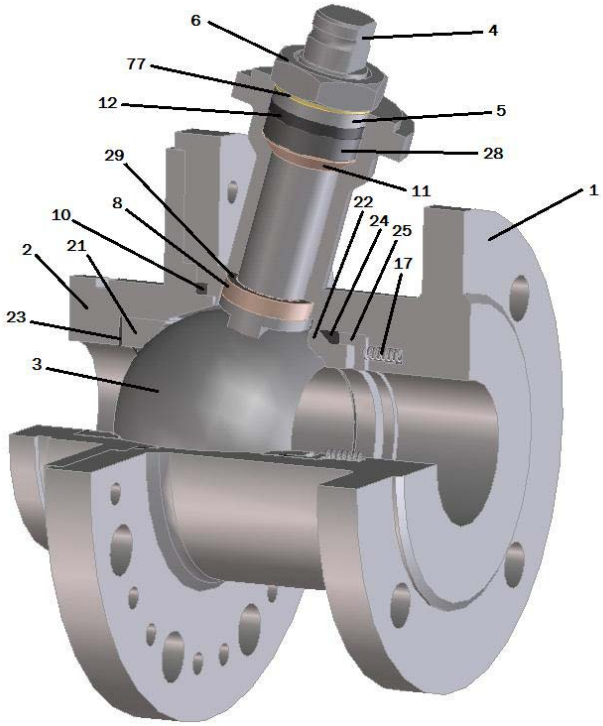
Official approvals

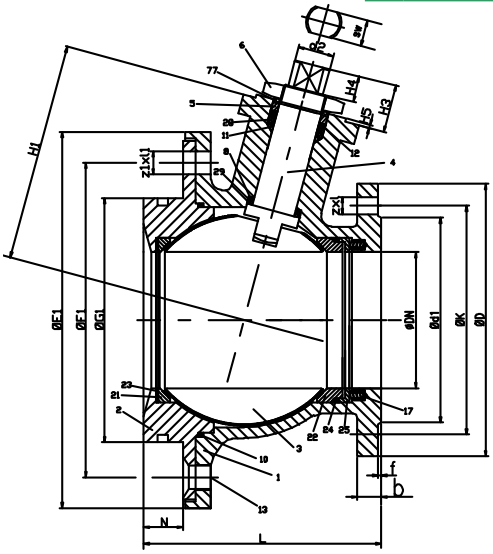
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

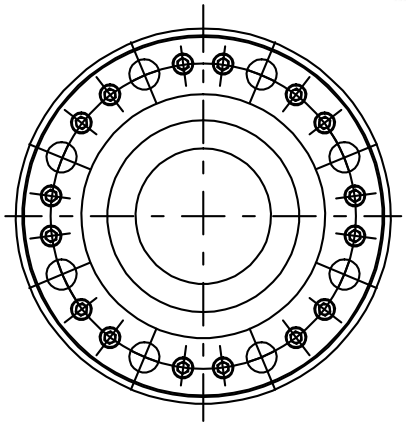
Sutein

TYPE 112 FCM (TANK BOTTOM)

#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / Carb.Cr.
4	Stem	1.4404
5	Gland follower	1.4404
6	Nut	A2 – 70
8	Stem seal	GRAPHITE
10	Body seal	GRAPHITE
11	Packing	RPTFE
12	Fire safe seal	GRAPHITE
13	Screw	A2 – 70
17	Spring	1.4401
21	Seat A	1.4404 + Col.6
22	Seat B	1.4404 + Col.6
23	Seat seal A	GRAPHITE
24	Seat seal B	GRAPHITE
25	Guide ring	1.4404
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
77	Fire safe plate	PEEK







DIMENSIONS

DN	Brida al tanque	PN	L	D	d1xf	b	z x l	K	N	G1	F1	E1	z1xl1	H1	d2	SW	H3	H4	H5	ISO
25	50	16	120*	115	68x2	18	4x14	85	35	69	125	165	4x18	118.5	18	14	26.5	14	2	F05
50	80		149	165	102x3	18	4x18	125	35	94	160	200	8x18	118.5	22	17	32.5	17	3	F07
80	100		162	200	138x3	20	8x18	160	35	129	180	220	8x18	144.5	26	19	37.5	19		F10
100	150		180	220	158x3	20	8x18	180	40	179	240	285	8x22	174						
150	200		240*	285	212x3	22	8x22	240	40	233	295	340	12x22	206	33	24	42.5	24		F12
150	250		240*	285	212x3	22	8x22	240	50	278	355	405	12x26							

* NON-STANDARD DISTANCE BETWEEN FLANGES!.

- Other materials and special alloys upon request.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- METAL SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

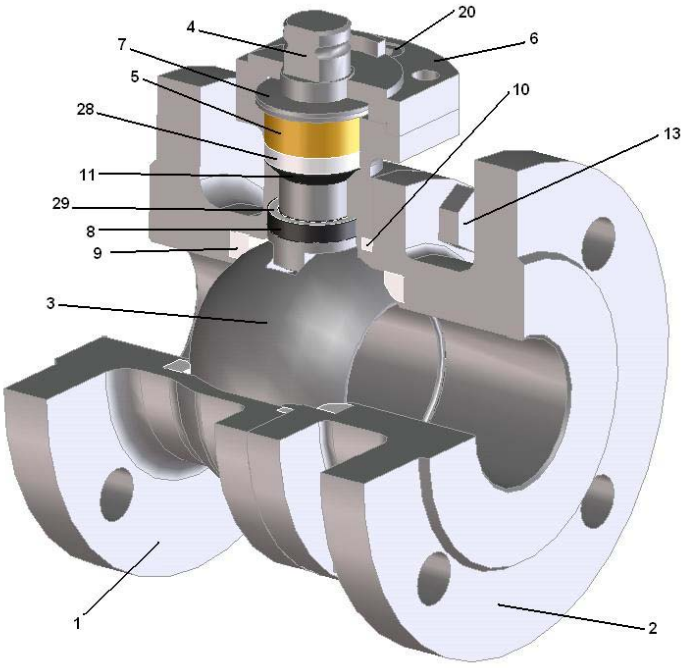
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558, GR.13
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5
- TANK CONNECTION DIN 28140-1

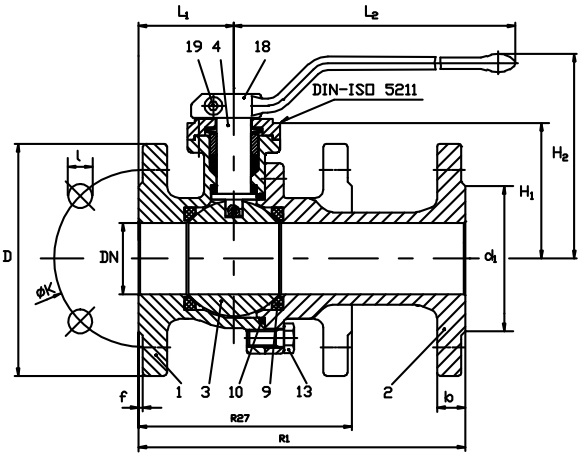
Official approvals

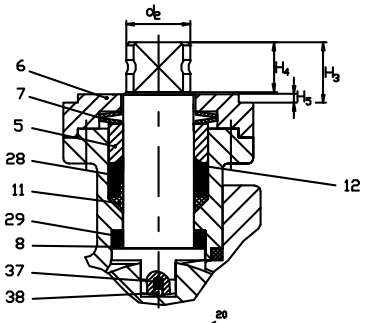
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

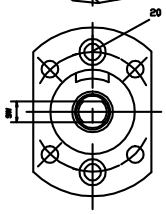
Sutein

TYPE 112 INTEC
DN-15/150 PN-16/40 R1/R27









#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	PEEK
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screw	A2 – 70
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	14	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	17	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	21.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	23.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	28	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- METAL SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

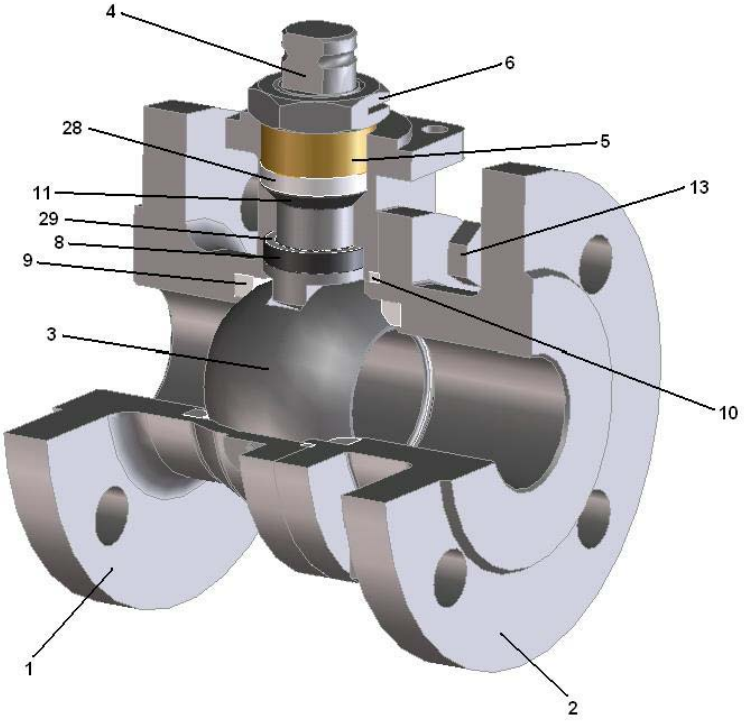
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558, GR.13
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5
- TANK CONNECTION DIN 28140-1

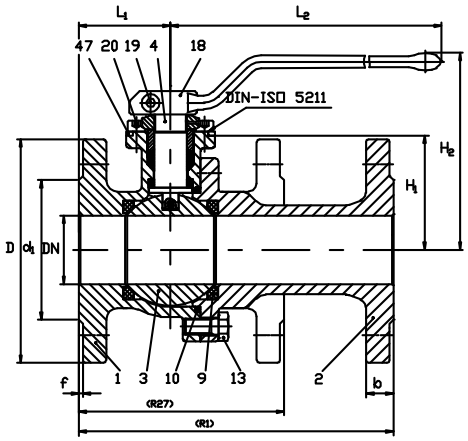
Official approvals

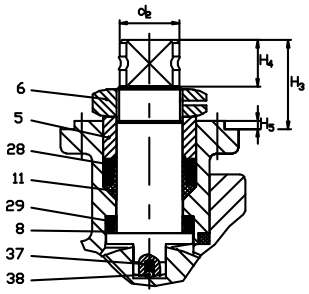
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

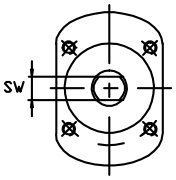
Sutein

TYPE 112 INTEC
DN-15/150 PN-16/40 R1/R27









#	COMPONENTS	MATERIAL
1	*Body*	1.4408
2	*Body end*	1.4408 / 1.4404
3	*Ball*	1.4408 / 1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Nut*	A2 – 70
8	*Stem seal*	RPTFE
9	*Seat*	RPTFE
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
13	*Screw*	A2 – 70
18	*Handle*	1.0619+ZINC
19	*Handle screw*	8.8 + ZINC
20	*Stopper screw*	A2 – 70
28	*Inner packing*	GRAPHITE
29	*Inner stem seal*	GRAPHITE
37	*Stem spring*	1.4404
38	*Ball stem*	1.4404
47	*Stopper*	1.4301

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	22.5	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	26.5	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	32.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	37.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	42.5	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

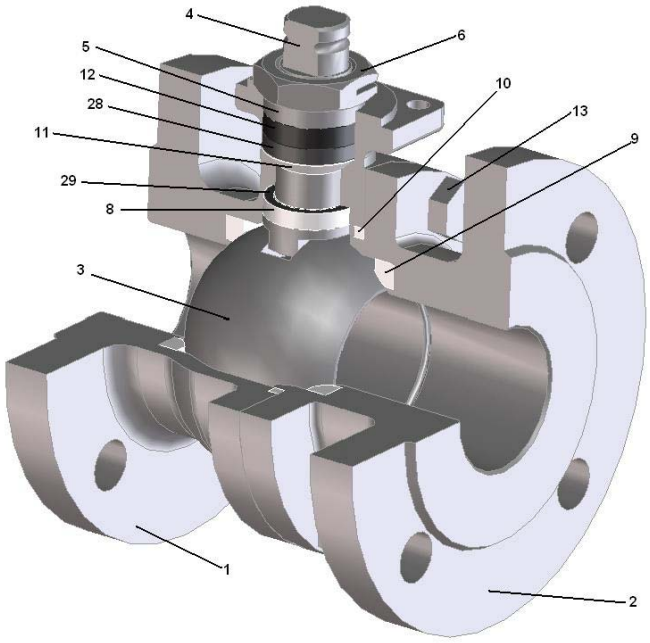
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE ANSI B16.10
- FLANGES ANSI B16.5

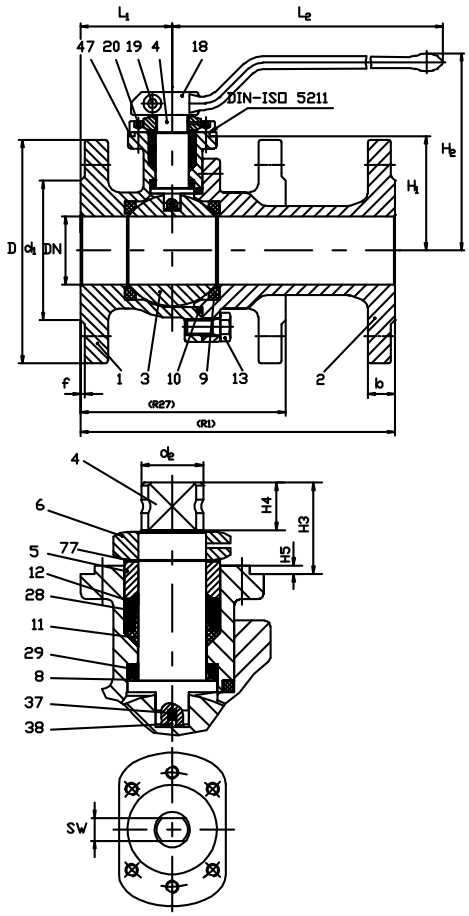
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 112 INTEC F.S.
DN-15/150 PN-16/40 R1/R27





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Nut	A2 – 70
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
12	Fire safe seal	GRAPHITE
13	Screw	A2 – 70
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404
47	Stopper	1.4301
77	Fire safe plate	PEEK

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	22.5	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	26.5	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	32.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	37.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	42.5	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE ANSI B16.10
- FLANGES ANSI B16.5

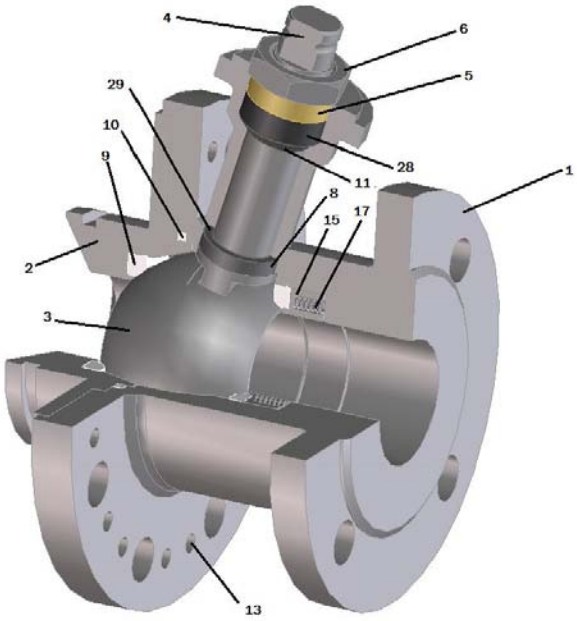
Official approvals

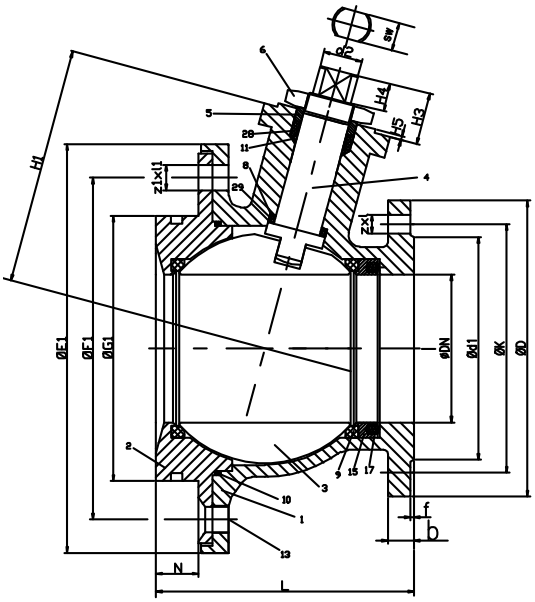
- ISO 9001-2008
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

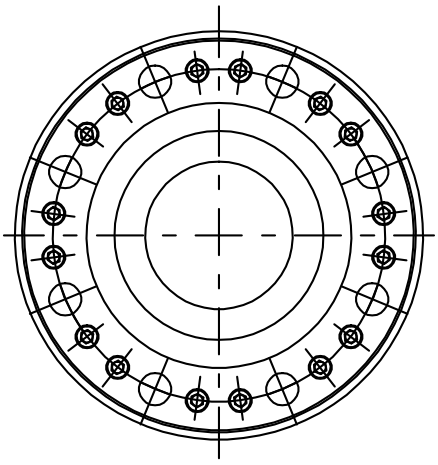
Sutein

TYPE 113 FC (TANK BOTTOM)

#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	PEEK
6	Nut	A2 – 70
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE







DIMENSIONS

DN	Brida al tanque	PN	L	D	d1xf	b	z x l	K	N	G1	F1	E1	z1xl1	H1	d2	SW	H3	H4	H5	ISO
25	50	16	120*	115	68x2	18	4x14	85	35	69	125	165	4x18	118.5	18	14	26.5	14	2	F05
50	80		149	165	102x3	18	4x18	125	35	94	160	200	8x18	118.5	22	17	32.5	17	3	F07
80	100		162	200	138x3	20	8x18	160	35	129	180	220	8x18	144.5	26	19	37.5	19		F10
100	150		180	220	158x3	20	8x18	180	40	179	240	285	8x22	174						
150	200		240*	285	212x3	22	8x22	240	40	233	295	340	12x22	206	33	24	42.5	24		F12
150	250		240*	285	212x3	22	8x22	240	50	278	355	405	12x26							

* NON-STANDARD DISTANCE BETWEEN FLANGES.

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid andt differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- AUTOMATIC DEPRESSURIZATION
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

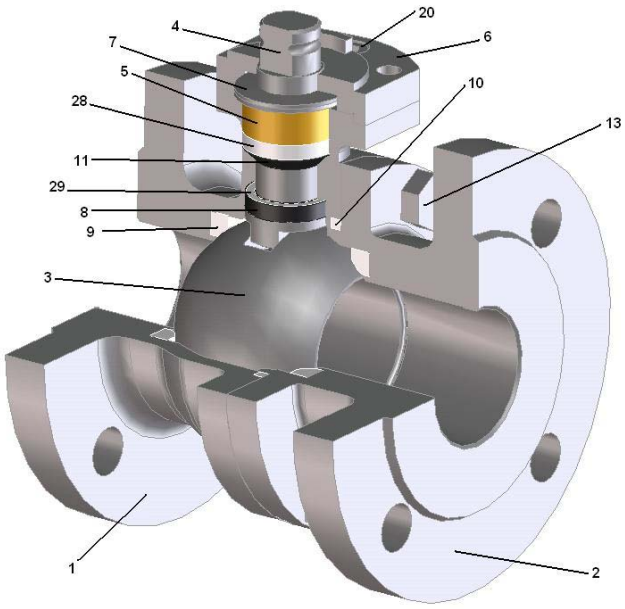
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558, GR.13
- FLANGES EN 1092-1
- FLANGES ANSI B16.5
- TANK CONNECTION DIN 28140-1

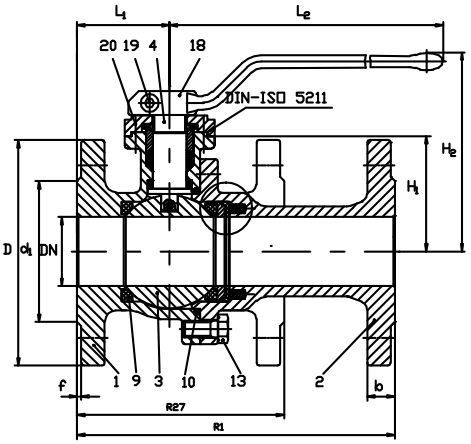
Official approvals

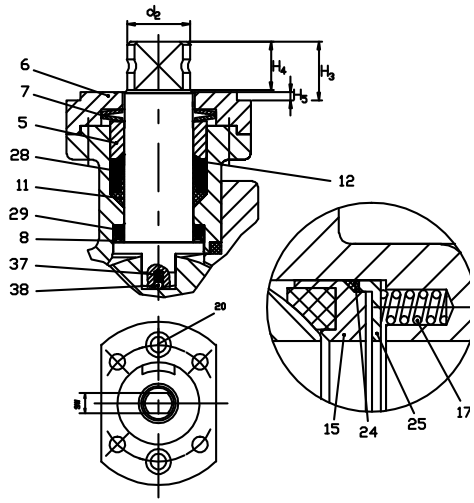
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 113/113 GL
DN-15/150 PN-16/40 R1/R27







#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	PEEK
6	Cover	1.4301
7	Spring plate	1.4568
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE
25	Guide ring	1.4404
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	14	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	17	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	21.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	23.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	28	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

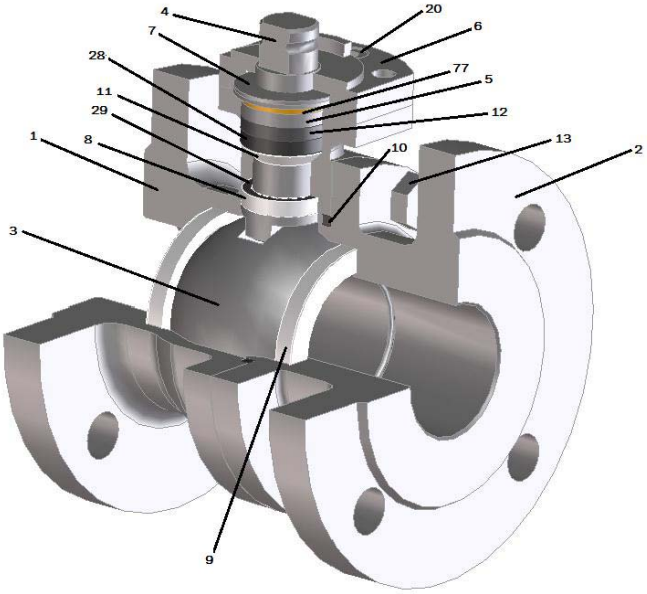
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

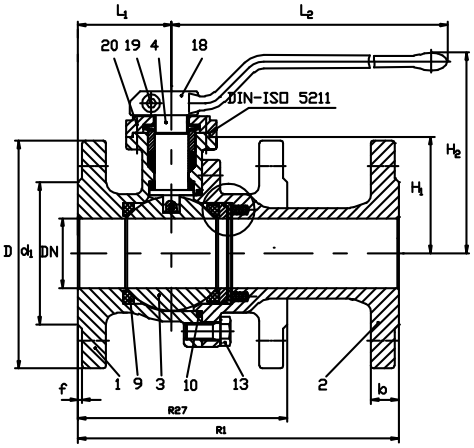
Official approvals

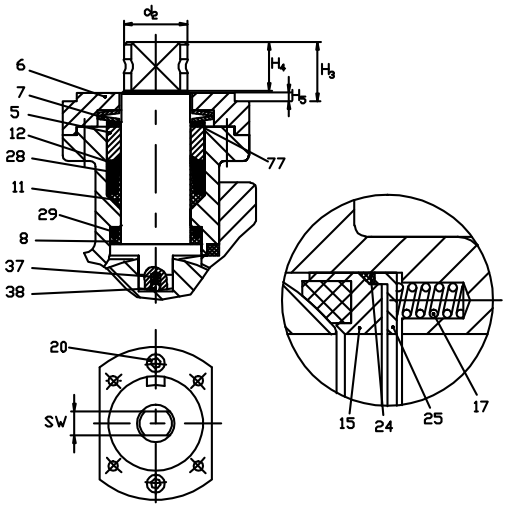
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 113/113FL F.S.
DN-15/150 PN-16/40 R1/R27







#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	GRAPHITE
11	Packing	RPTFE
12	Fire safe seal	GRAPHITE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
24	Seat seal	GRAPHITE
25	Guide ring	1.4404
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404
77	Fire safe plate	PEEK

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	14	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	17	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	21.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	23.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	28	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

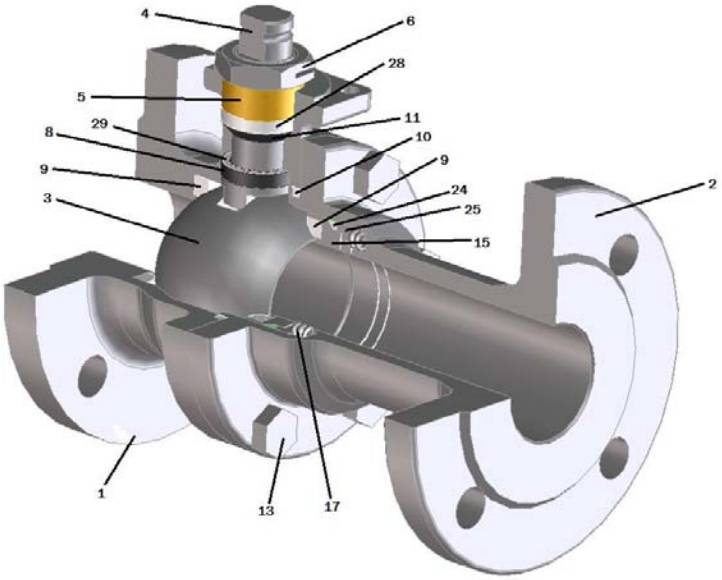
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

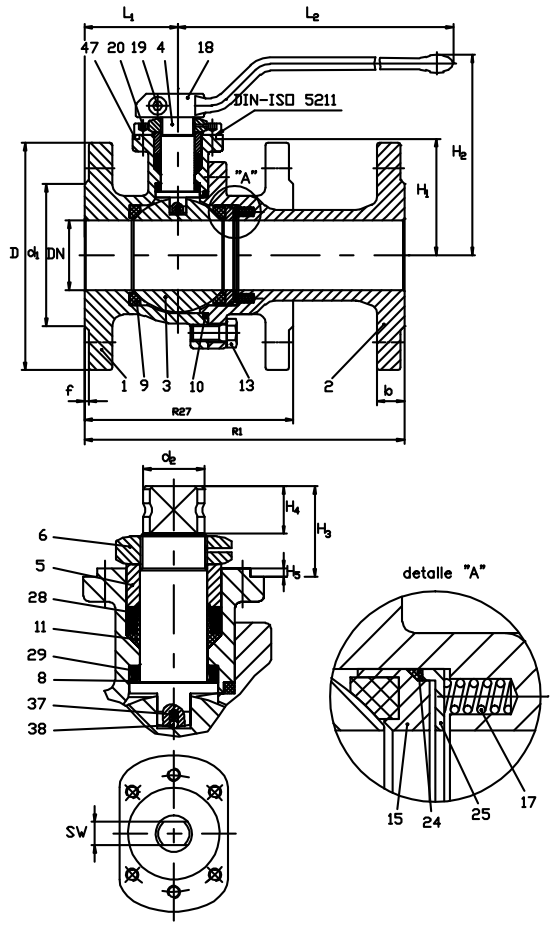
Official approvals

- 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 113/113GL
DN-15/150 PN-16/40 R1/R27





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	PEEK
6	Nut	1.4301
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE
25	Guide ring	1.4404
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404
77	Fire safe plate	1.4301

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	22.5	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	26.5	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	32.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	37.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	42.5	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

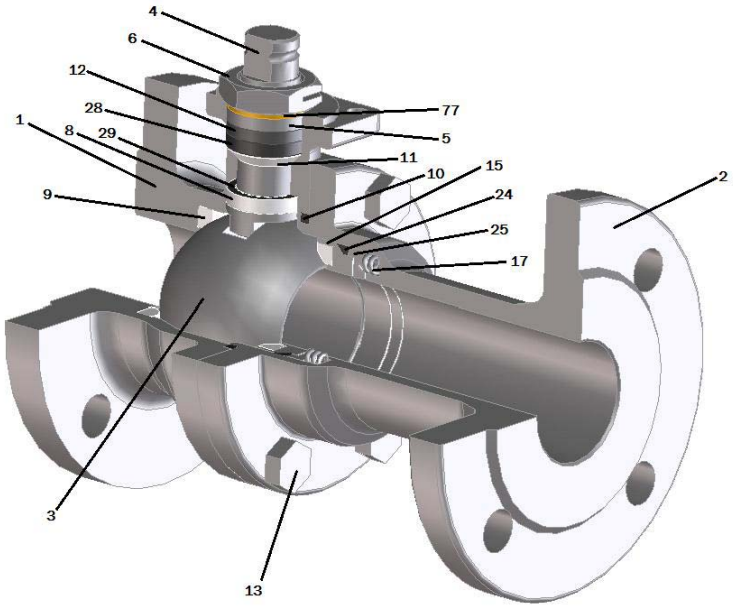
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

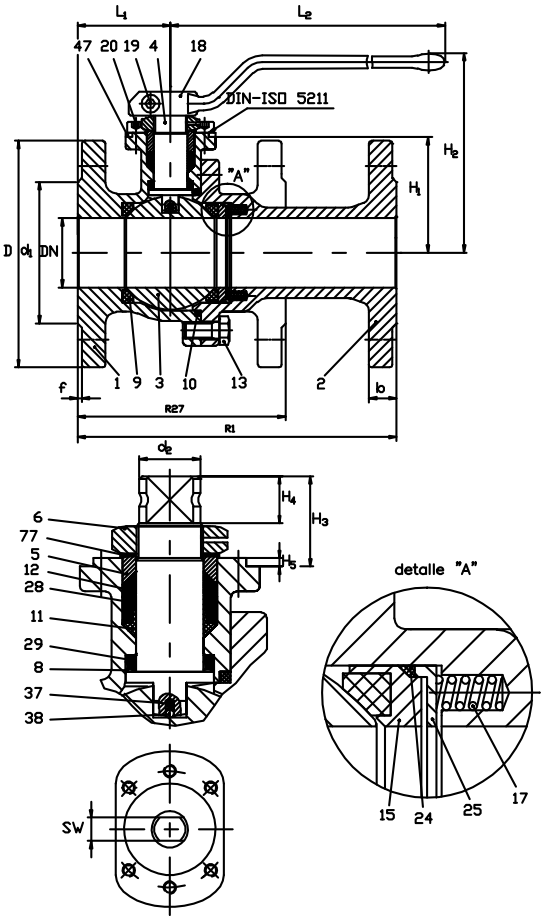
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 113/113GL F.S.
DN-15/150 PN-16/40 R1/R27





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Nut	A2 – 70
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	GRAPHITE
11	Packing	RPTFE
12	Fire safe seal	GRAPHITE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
24	Seat seal	GRAPHITE
25	Guide ring	1.4404
28	Inner packing	GRAPHITE
29	Inner stem seal	GRAPHITE
37	Stem spring	1.4404
38	Ball stem	1.4404
47	Stopper	1.4301
77	Fire safe plate	PEEK

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	16	52.5	39.5	95	160	14	11	22.5	11	2	F05
20		120	150	105	58x2	18	56	42	101							
25		125	160	115	68x2		58	49.5	115	180	18	14	26.5	14		
32		130	180	140	78x2		62	55	125							
40		140	200	150	88x3		64.5	76	135	282	22	17	32.5	17	3	F07
50		150	230	165	102x3	20	67	83.5	145							
65	16	170	290	185	122x3	18	78	96	157							
65	40					22										
80	16	180	310	200	138x3	20	81.5	102.5	197	450	26	19	37.5	19		F10
80	40					24										
100	16	190	350	220	158x3	20	87	120.5	212							
100	40			235	162x3	24										
150	16	350	480	285	212x3	22	148	160	263	700	33	24	42.5	24	3	F12
150	40			300	218x3	28										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

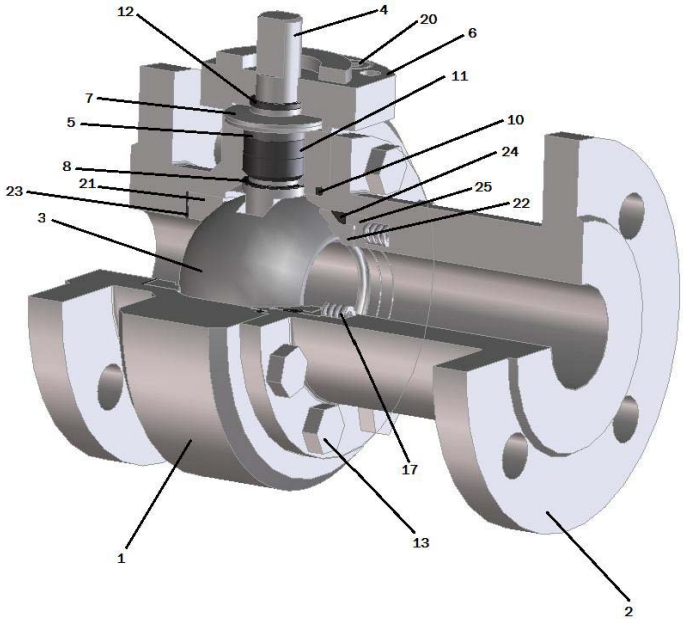
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

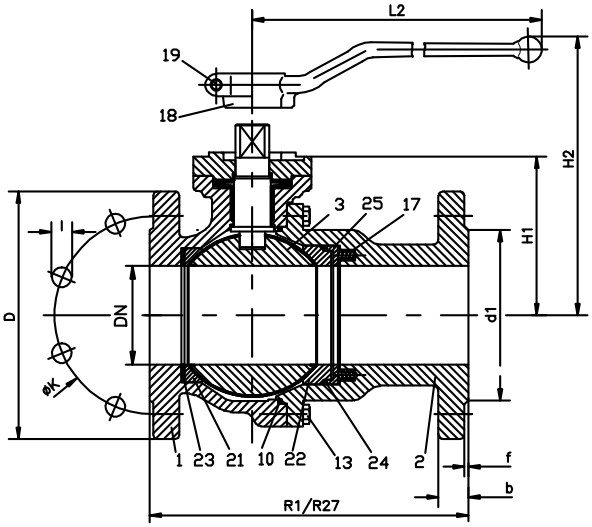
Official approvals

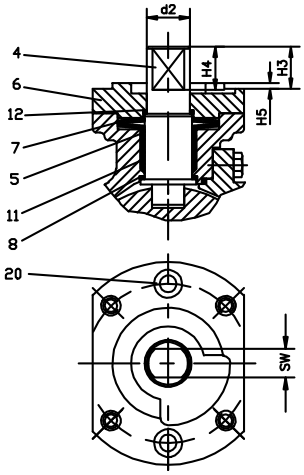
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC

Sutein

TYPE 114
DN-15/100 PN-16/40 R1/R27







#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / Carb.Cr.
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	GRAPHITE
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
12	Cover seal	PTFE+GRAPHITE
13	Screw	A2 – 70
17	Spring	1.4401
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
21	Seat A	1.4404 + Col.6
22	Seat B	1.4404 + Col.6
23	Seat seal A	GRAPHITE
24	Seat seal B	GRAPHITE
25	Guide ring	1.4404

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b PN16/PN40	z x l	K	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	115	130	95	45x2	14/16	4x14	65	55	105	180	13	10	17	18	3.5	F05
20		120	150	105	58x2	16/18	4x14	75	58	108							
25		125	160	115	68x2		4x14	85	62	112							
32		130	180	140	78x2		4x14	100	68	118							
40		140	200	150	88x3		4x18	110	82	137	300	17	12	21.5	22	3.5	F07
50		150	230	165	102x3	18/20	4x18	125	88	143							
65	16	170	290	185	122x3	18	4x18	145	98	153							
65	40					22	8x18										
80	16	180	310	200	138x3	20	8x18	160	125	155	450	27	18	25	27	3.5	F10
80	40					24											
100	16	190	350	220	158x3	20	8x18	180	140	170							
100	40			235	162x3	24	8x22	190									

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- METAL SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

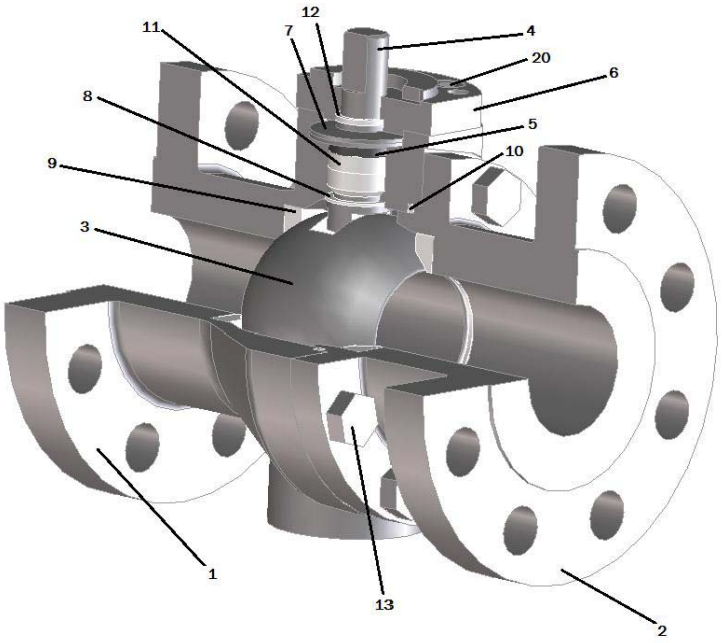
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

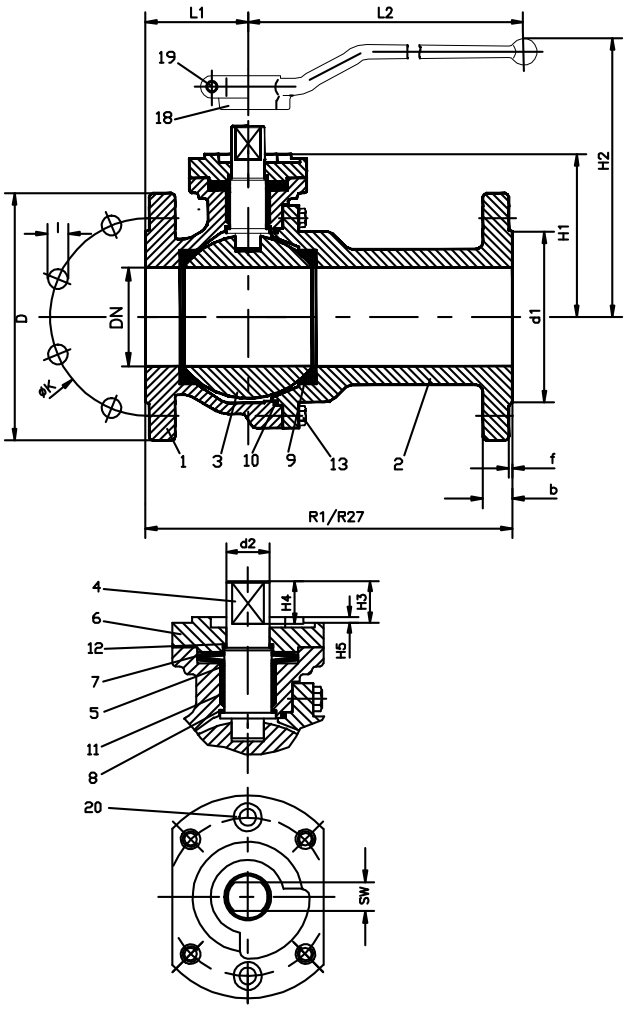
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 115
DN-15/100 PN-16/40 R1/R27





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
12	Cover seal	RPTFE
13	Screw	A2 – 70
18	Handle	1.0619+ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b PN16/PN40	z x l	K	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	115	130	95	45x2	14/16	4x14	65	55	105	180	13	10	17	18	3.5	F05
20		120	150	105	58x2	16/18	4x14	75	58	108							
25		125	160	115	68x2		4x14	85	62	112							
32		130	180	140	78x2		4x14	100	68	118							
40		140	200	150	88x3		4x18	110	82	137	300	17	12	21.5	22	3.5	F07
50		150	230	165	102x3	18/20	4x18	125	88	143							
65	16	170	290	185	122x3	18	4x18	145	98	153							
65	40					22	8x18										
80	16	180	310	200	138x3	20	8x18	160	125	155	450	27	18	25	27	3.5	F10
80	40					24											
100	16	190	350	220	158x3	20	8x18	180	140	170							
100	40			235	162x3	24	8x22	190									

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

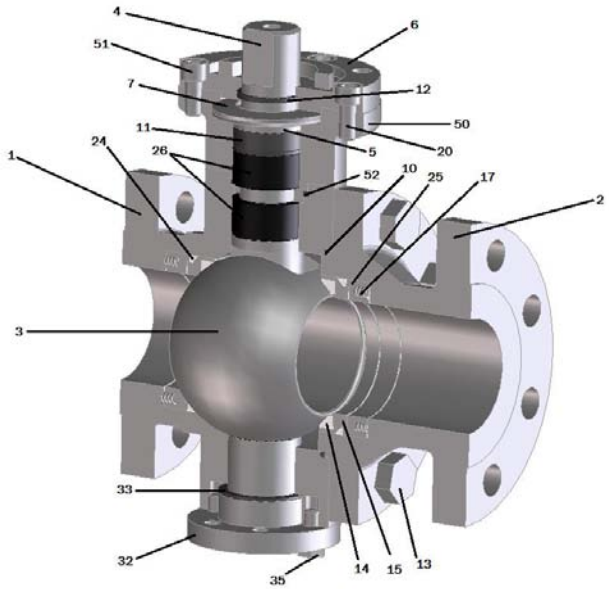
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

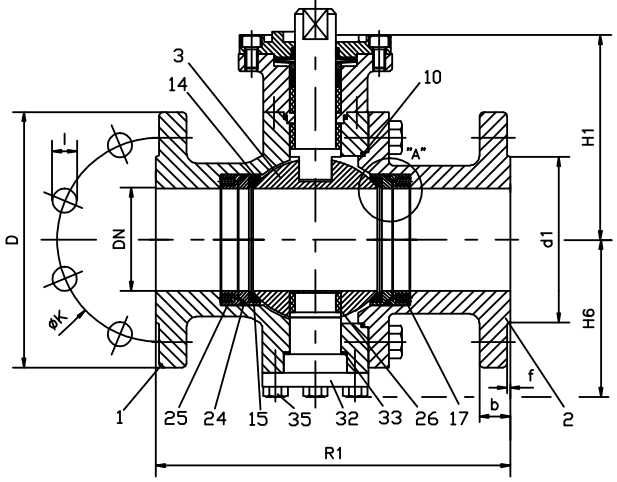
Official approvals

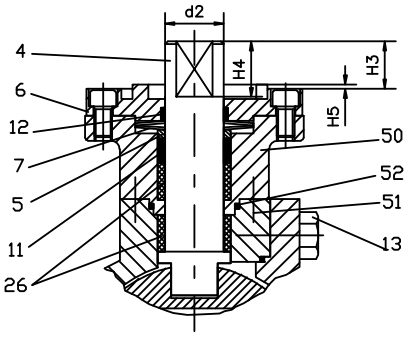
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC

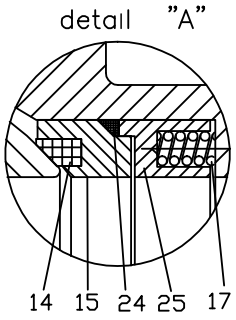
Sutein

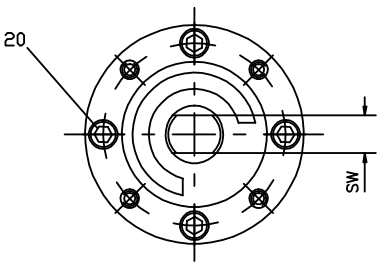
TYPE 115G / 113G
DN-50/100 PN-40 R1











#	COMPONENTS	MATERIAL
1	Body	1.4408 / 1.4404
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	RPTFE
11	Packing	RPTFE
12	Cover seal	RPTFE
13	Screw	A2 – 70
14	Seat ring	RPTFE
15	Pressure ring	1.4404
17	Spring	1.4401
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
32	Trunnion	1.4404
33	Trunnion seal	RPTFE
35	Trunnion screw	A2 – 70
50	Upper body	1.4404
51	Upper body screw	A2 – 70
52	Upper body seal	RPTFE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x l	K	H6	H1	d2	SW	H3	H4	H5	ISO	Kg
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10	28
65		290	185	112x3	22	8x18	145	103.5	142							36
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12	58
100		350	235	162x3	24	8x22	190	151	200.5							75

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- SOFT SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM

Standards

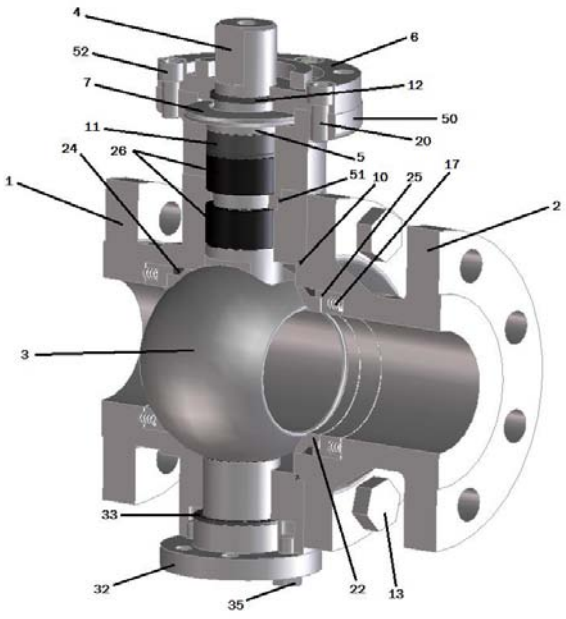
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

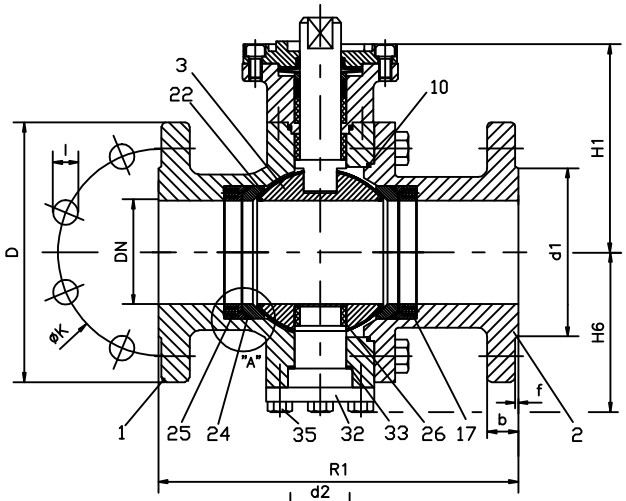
Official approvals

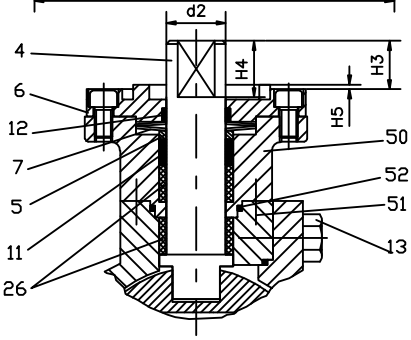
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440

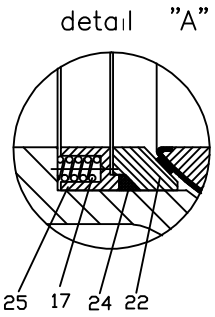
Sutein

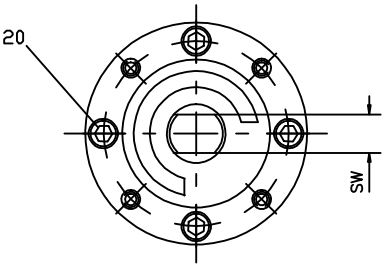
TYPE 116G / 114G
DN-50/100 PN-40 R1











#	COMPONENTS	MATERIAL
1	*Body*	1.4408 / 1.4404
2	*Body end*	1.4408 / 1.4404
3	*Ball*	1.4408 / CAR.CR.
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	GRAPHITE
11	*Packing*	GRAPHITE
12	*Cover seal*	RPTFE+GRAPHITE
13	*Screw*	A2 – 70
17	*Spring*	1.4401
20	*Stopper screw*	A2 – 70
22	*Seat*	1.4404 + Col.6
24	*Seat seal*	GRAPHITE
25	*Guide ring*	1.4404
26	*Stem G. ring*	GRAPHITE
32	*Trunnion*	1.4404
33	*Trunnion seal*	RPTFE
35	*Trunnion screw*	A2 – 70
50	*Upper body*	1.4404
51	*Upper body screw*	A2 – 70
52	*Upper body seal*	RPTFE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x I	K	H6	H1	d2	SW	H3	H4	H5	ISO	Kg
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10	28
65		290	185	112x3	22	8x18	145	103.5	142							36
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12	58
100		350	235	162x3	24	8x22	190	151	200.5							75

- Other materials and special alloys upon request.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- METAL SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM

Standards

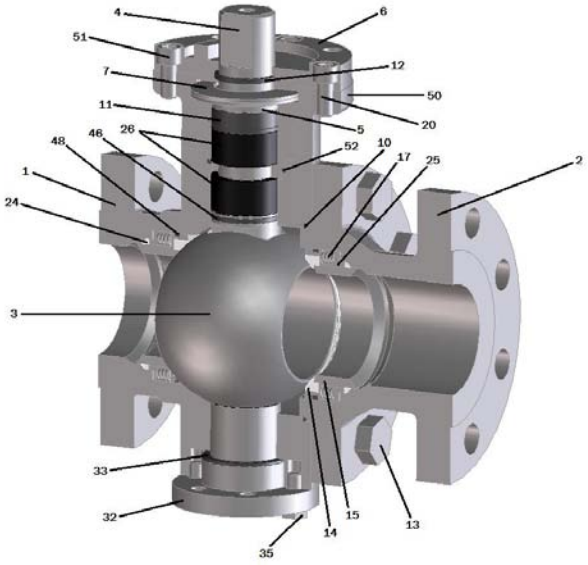
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

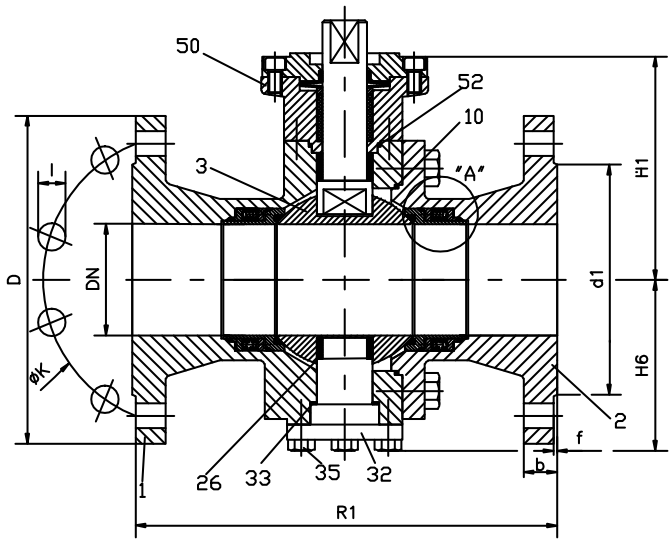
Official approvals

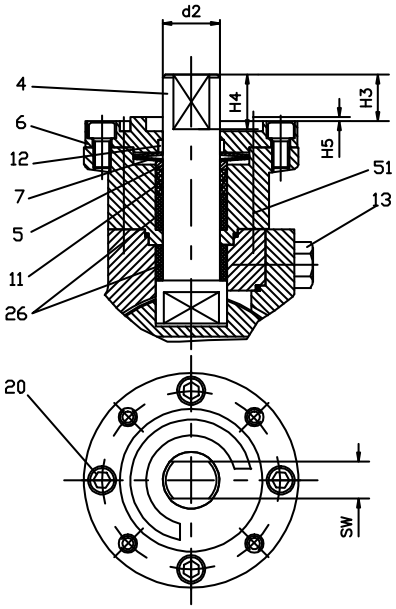
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440

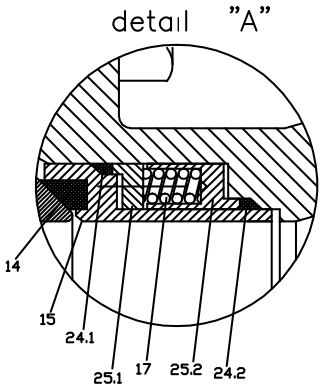
Sutein

TYPE 117G / 113G (*No O-Rings*)
DN-50/100 PN-40 R1









#	COMPONENTS	MATERIAL
1	*Body*	1.4408 / 1.4404
2	*Body end*	1.4408 / 1.4404
3	*Ball*	1.4408 / 1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	RPTFE
11	*Packing*	RPTFE
12	*Cover seal*	RPTFE
13	*Screw*	A2 – 70
14	*Seat ring*	RPTFE
15	*Pressure ring*	1.4404
17	*Spring*	1.4401
20	*Stopper screw*	A2 – 70
24.1	*Seat seal 1*	RPTFE
24.2	*Seat seal 2*	RPTFE
25.1	*Guide ring 1*	1.4404
25.2	*Guide ring 2*	1.4404
26	*Stem G. ring*	GRAPHITE
32	*Trunnion*	1.4404
33	*Trunnion seal*	RPTFE
35	*Trunnion screw*	A2 – 70
50	*Upper body*	1.4404
51	*Upper body screw*	A2 – 70
52	*Upper body seal*	RPTFE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x l	K	H6	H1	d2	SW	H3	H4	H5	ISO
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10
65		290	185	112x3	22	4x18	145	103.5	142						
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12
100		350	235	162x3	24	8x22	190	151	200.5						

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- SOFT SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM

Standards

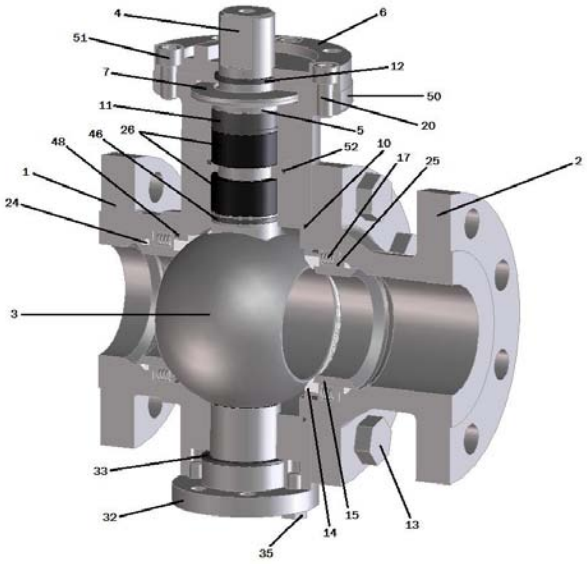
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

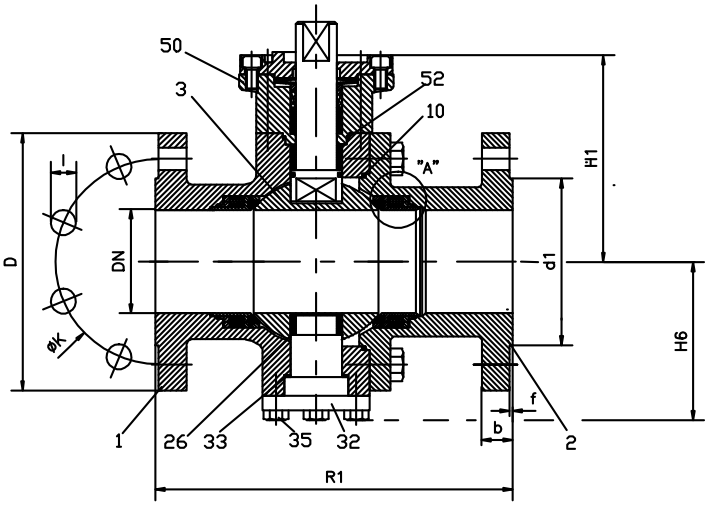
Official approvals

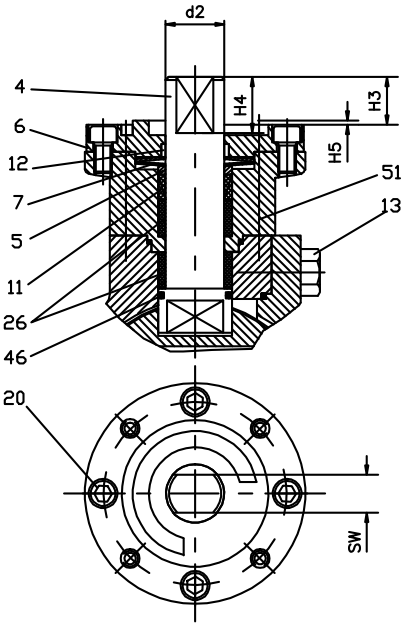
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440

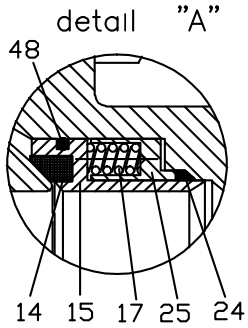
Sutein

TYPE 117G / 113G
DN-50/100 PN-40 R1









#	COMPONENTS	MATERIAL
1	*Body*	1.4408 / 1.4404
2	*Body end*	1.4408 / 1.4404
3	*Ball*	1.4408 / 1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
12	*Cover seal*	RPTFE
13	*Screw*	A2 – 70
14	*Seat ring*	RPTFE
15	*Pressure ring*	1.4404
17	*Spring*	1.4401
20	*Stopper screw*	A2 – 70
24	*Seat seal*	RPTFE
25	*Guide ring*	1.4404
26	*Stem G. ring*	GRAPHITE
32	*Trunnion*	1.4404
33	*Trunnion seal*	RPTFE
35	*Trunnion screw*	A2 – 70
46	*Stem O'ring*	VITON
48	*Seat O'ring*	VITON
50	*Upper body*	1.4404
51	*Upper body screw*	A2 – 70
52	*Upper body seal*	RPTFE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x l	K	H6	H1	d2	SW	H3	H4	H5	ISO
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10
65		290	185	112x3	22	8x18	145	103.5	142						
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12
100		350	235	162x3	24	8x22	190	151	200.5						

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- SOFT SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM

Standards

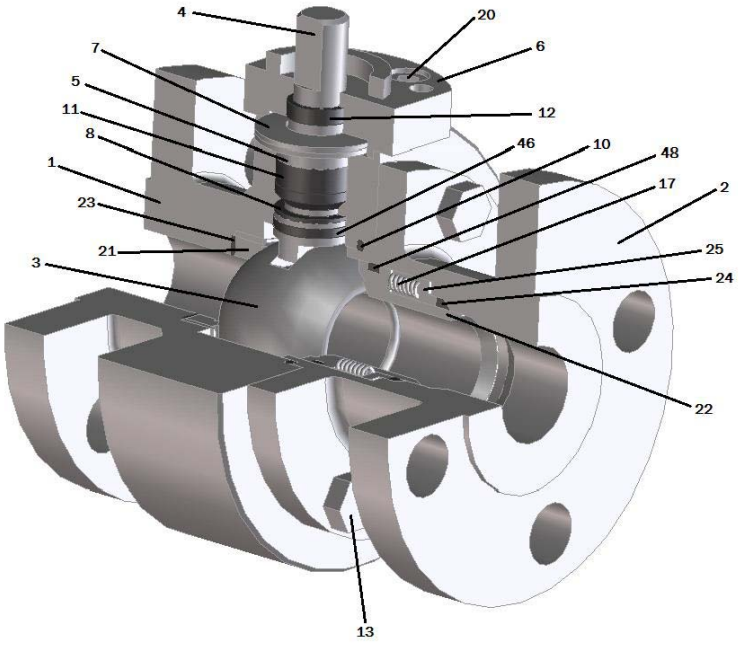
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

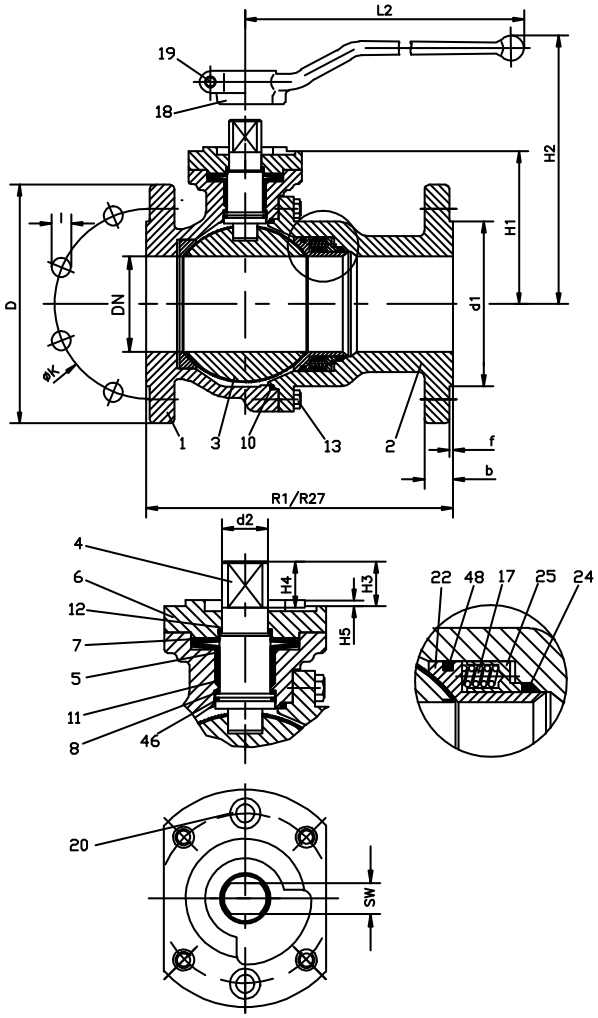
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440

Sutein

TYPE 118
DN-15/100 PN-40 R1/R27





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408
3	Ball	1.4408 / CAR.CR.
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	GRAPHITE
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
12	Cover seal	PTFE+ GRAPHITE
13	Screw	A2 – 70
14	Spring	1.4401
18	Handle	1.0619 + ZINC
19	Handle screw	8.8 + ZINC
20	Stopper screw	A2 – 70
21	Seat A	1.4404 + Col.6
22	Seat B	1.4404 + Col.6
23	Seat seal A	GRAPHITE
24	Seat seal B	GRAPHITE
25	Guide ring	1.4404
46	Stem O'ring	VITON
48	Seat O'ring	VITON

DIMENSIONS

DN	PN	R1	R27	D	d1xf	b	z x l	K	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	130	115	95	45x2	16	4x14	65	55	105	180	13	10	17	18	3.5	F05
20		150	120	105	58x2	18	4x14	75	58	108							
25		160	125	115	68x2		4x14	85	62	112							
32		180	130	140	78x2		4x18	100	68	118							
40		200	140	150	88x3		4x18	110	82	137	300	17	12	21.5	22		F07
50		230	150	165	102x3	20	4x18	125	88	143							
65		290	170	185	122x3	22	8x18	145	98	153							
80		310	180	200	138x3	24	8x18	160	125	155	450	27	18	25	27		F10
100		350	190	235	162x3	24	8x22	190	140	170							

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- METAL SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION

Standards

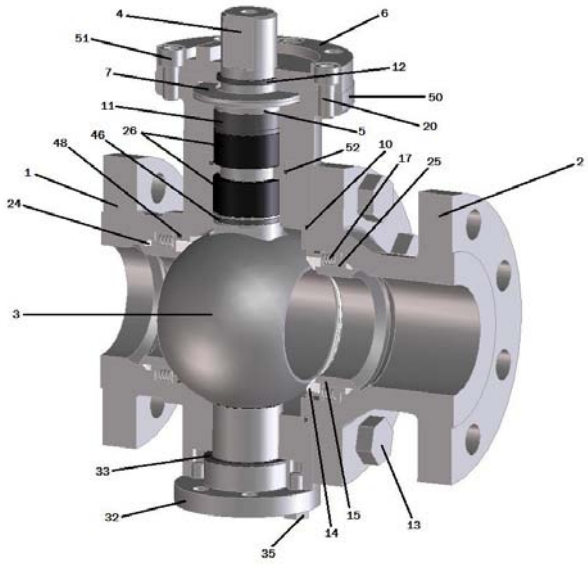
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

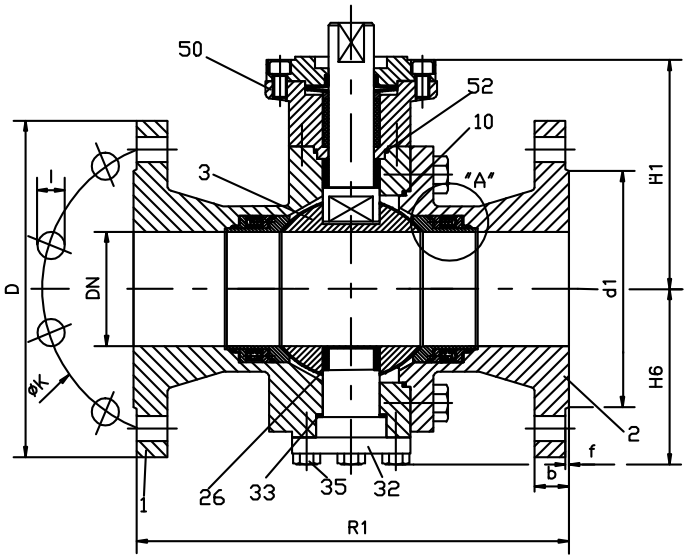
Official approvals

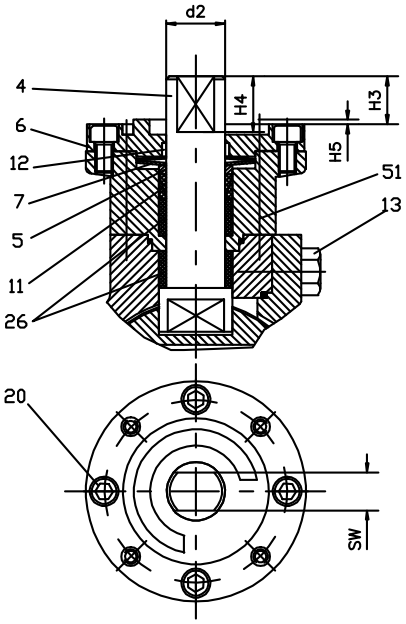
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

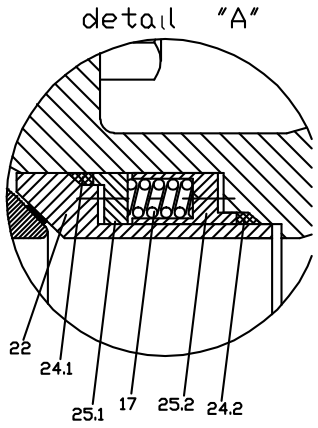
Sutein

TYPE 118G / 114G (No O-Rings)
DN-50/100 PN-40 R1









#	COMPONENTS	MATERIAL
1	Body	1.4408 / 1.4404
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / Carb.Cr.
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
12	Cover seal	PTFE+GRAPHITE
13	Screw	A2 – 70
17	Spring	1.4401
20	Stopper screw	A2 – 70
22	Seat	1.4404 + Col.6
24.1	Seat seal 1	GRAPHITE
24.2	Seat seal 2	GRAPHITE
25.1	Guide ring 1	1.4404
25.2	Guide ring 2	1.4404
26	Stem G. ring	GRAPHITE
32	Trunnion	1.4404
33	Trunnion seal	GRAPHITE
35	Trunnion screw	A2 – 70
50	Upper body	1.4404
51	Upper body screw	A2 – 70
52	Upper body seal	GRAPHITE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x l	K	H6	H1	d2	SW	H3	H4	H5	ISO
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10
65		290	185	122x3	22	4x18	145	103.5	142						
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12
100		350	235	162x3	24	8x22	190	151	200.5						

- Other materials and special alloys upon request.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- METAL SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM

Standards

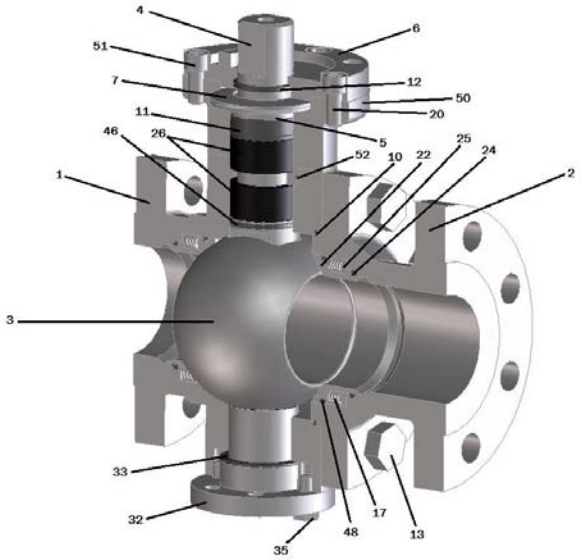
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

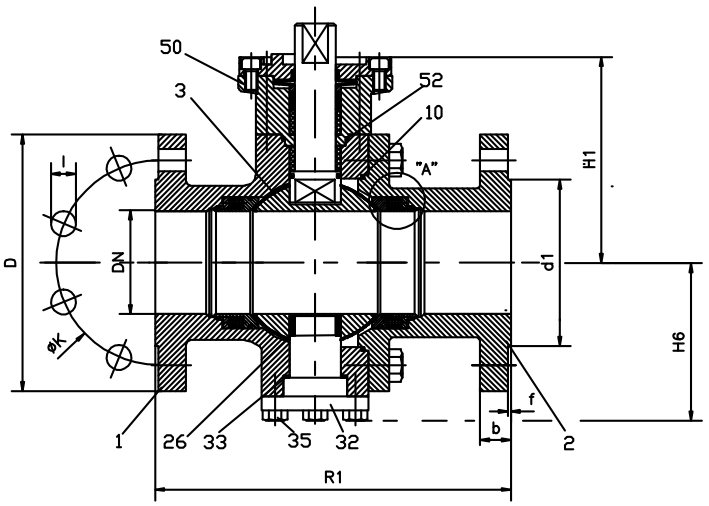
Official approvals

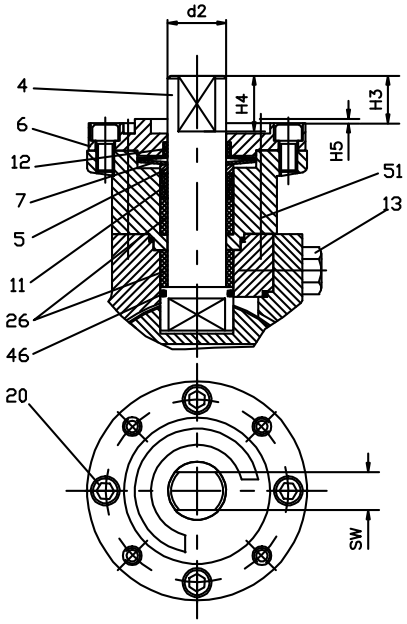
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440

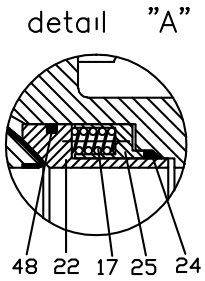
Sutein

TYPE 118G / 114G
DN-50/100 PN-40 R1









#	COMPONENTS	MATERIAL
1	Body	1.4408 / 1.4404
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / CAR.CR.
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
12	Cover seal	PTFE+GRAPHITE
13	Screw	A2 – 70
17	Spring	1.4401
20	Stopper screw	A2 – 70
22	Seat	1.4404 + Col.6
24	Seat seal	GRAPHITE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
32	Trunnion	1.4404
33	Trunnion seal	GRAPHITE
35	Trunnion screw	A2 – 70
46	Stem O'ring	VITON
48	Seat O'ring	VITON
50	Upper body	1.4404
51	Upper body screw	A2 – 70
52	Upper body seal	GRAPHITE

DIMENSIONS

DN	PN	R1	D	d1xf	b	z x l	K	H6	H1	d2	SW	H3	H4	H5	ISO
50	40	230	165	102x3	20	4x18	125	96	131.5	27	18	25	27	3.5	F10
65		290	185	122x3	22	4x18	145	103.5	142						
80		310	200	138x3	24	8x18	160	141	188.5	40	32	34	38	3	F12
100		350	235	162x3	24	8x22	190	151	200.5						

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- METAL SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION
- DOUBLE SELF ADJUSTING PACKING

Standards

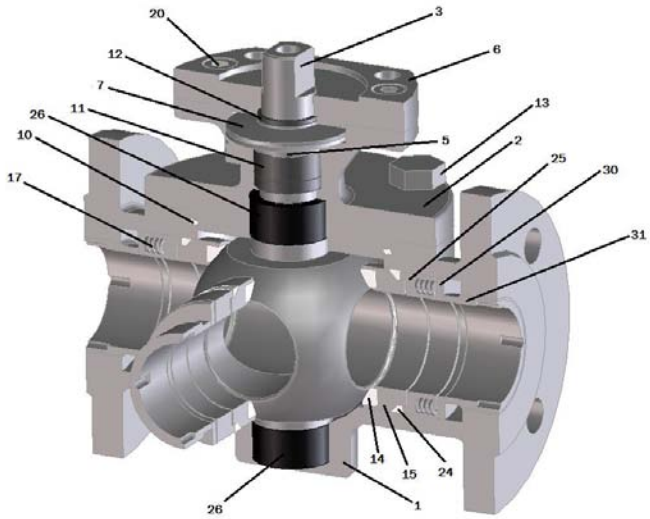
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGETS EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

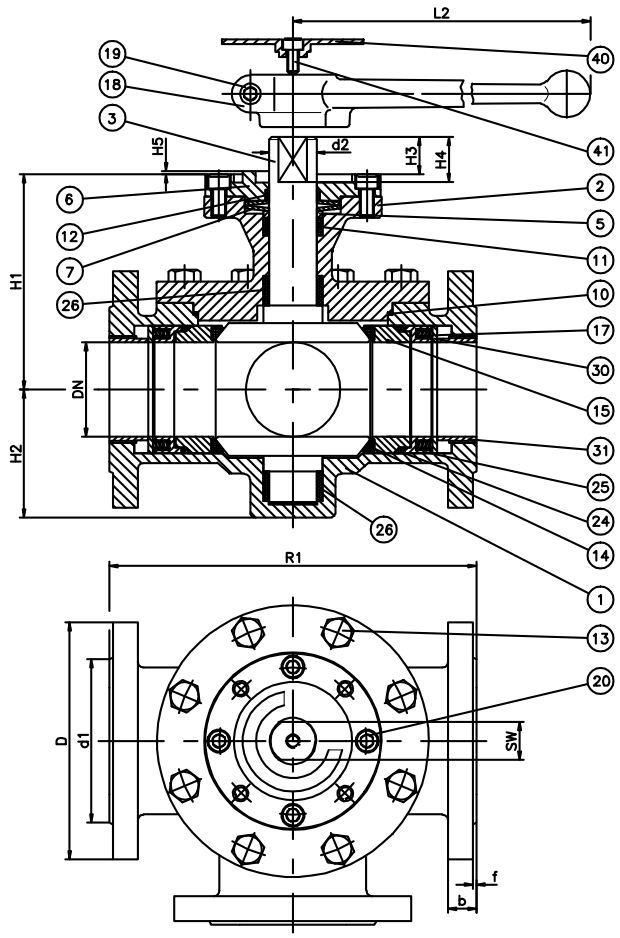
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 120
DN-15/100 PN-40 R1





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408
3	Ball	1.4408
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plates	1.4568
10	Body seal	RPTFE / GRAPHITE
11	Packing	RPTFE / GRAPHITE
12	Cover seal	RPTFE
13	Screws	A2 – 70
14	Seat ring	RPTFE
15	Pressure ring	1.4404
17	Springs	1.4401
18	Handle	1.0460 + ZINC
19	Handle screw	A2 – 70
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE / GRAPHITE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
30	Washer	1.4404
31	Bushing	1.4404
40	Indicator	C 22.8
41	Indicator screw	A2 – 70

DIMENSIONS

DN	PN	R1	D	d1xf	b	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	130	95	45x2	16	71	37	180	13	10	12.5	13	3.5	F05
20		150	105	58x2	18	76.5	47							
25		160	115	68x2	18	76.5	47							
32		180	140	78x2	18	76.5	47							
40		200	150	88x3	18	119.5	67	450	27	18	19	21	3.5	F10
50		230	165	102x3	20	124.5	75							
65		290	185	122x3	22	130.5	86							
80		310	200	138x3	24	178.5	108	800	40	32	32	38	3	F12
100		350	235	162x3	24	184.5	124							

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- 3-WAY / FULL BORE
- UNIBODY
- GUIDED BALL
- SOFT SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION
- DOUBLE SELF ADJUSTING PACKING

Standards

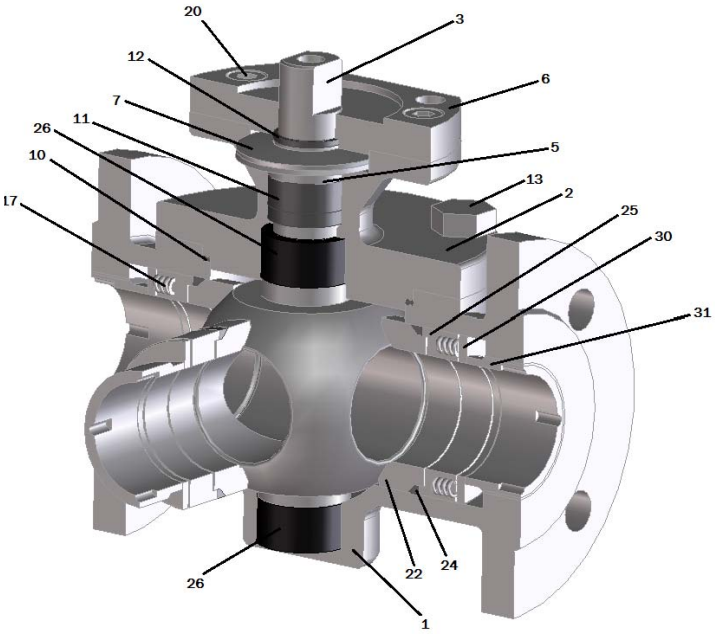
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FLANGES ANSI B16.5

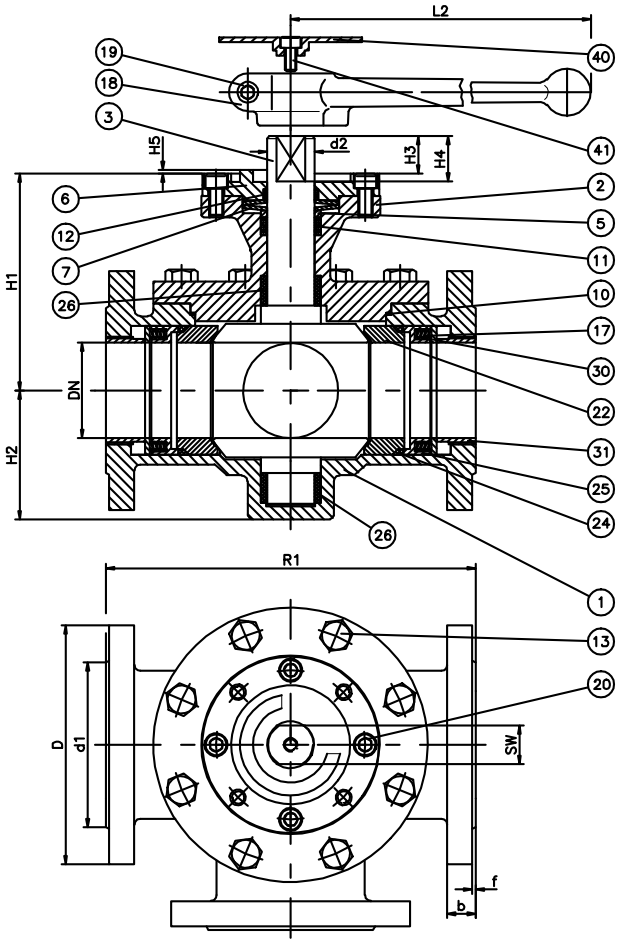
Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE CERTIFICATE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 121
DN-15/100 PN-40 R1





#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408
3	Ball	1.4408+Chr.Car.
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plates	1.4568
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
12	Cover seal	RPTFE
13	Screws	A2 – 70
17	Springs	1.4401
18	Handle	1.0460 + ZINC
19	Handle screw	A2 – 70
20	Stopper screw	A2 – 70
22	Seat	1.4404 + Col.6
24	Seat seal	GRAPHITE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
30	Washer	1.4404
31	Bushing	1.4404
40	Indicator	C 22.8
41	Indicator screw	A2 – 70

DIMENSIONS

DN	PN	R1	D	d1xf	b	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	40	130	95	45x2	16	71	37	180	13	10	12.5	13	3.5	F05
20		150	105	58x2	18	76.5	47							
25		160	115	68x2	18	76.5	47							
32		180	140	78x2	18	76.5	47							
40		200	150	88x3	18	119.5	67	450	27	18	19	21	3.5	F10
50		230	165	102x3	20	124.5	75							
65		290	185	122x3	22	130.5	86							
80		310	200	138x3	24	178.5	108	800	40	32	32	38	3	F12
100		350	235	162x3	24	184.5	124							

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- 3-WAY / FULL BORE
- UNIBODY
- GUIDED BALL
- METAL SEATS
- COMPENSATING SEATS
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION
- DOUBLE SELF ADJUSTING PACKING

Standards

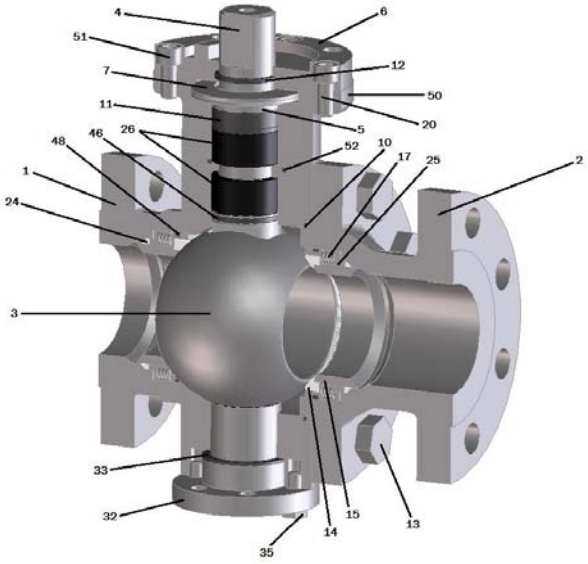
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FLANGES ANSI B16.5

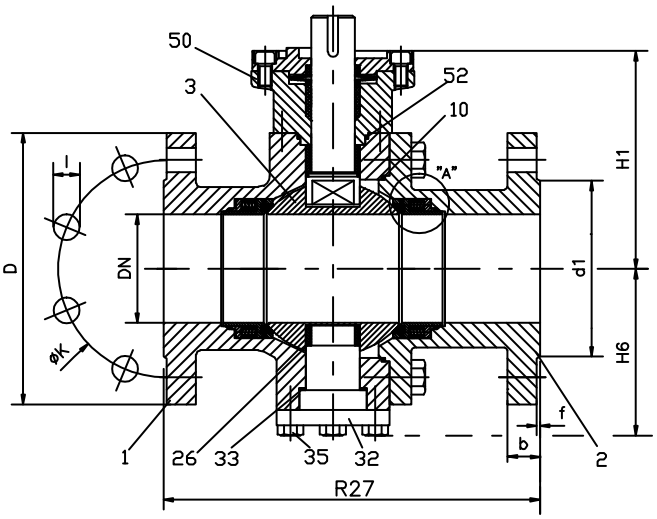
Official approvals

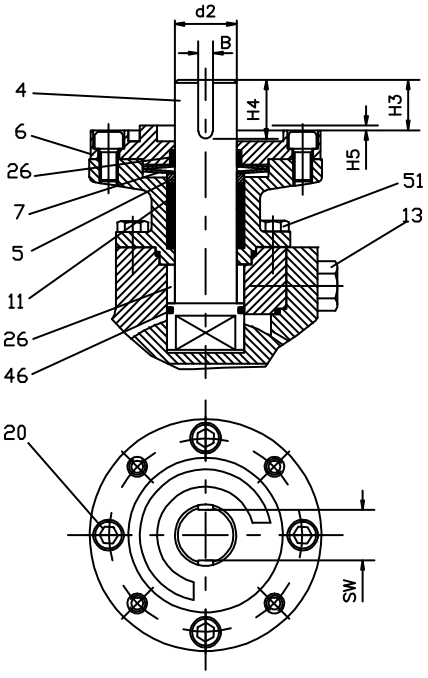
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE CERTIFICATE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

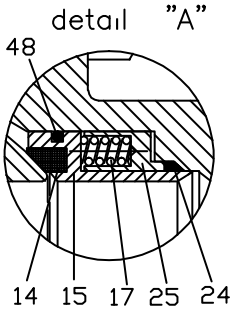
Sutein

TYPE 117G / 113G
DN-125/300 PN-40 R27









#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408
3	Ball	1.4408
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4568
10	Body seal	RPTFE
11	Packing	RPTFE
13	Screws	A2 – 70
14	Seat ring	RPTFE
15	Pressure ring	1.4404
17	Spring	1.4401
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
32	Trunnion	1.4404
33	Trunnion seal	RPTFE
35	Trunnion screw	A2 – 70
46	Stem O'ring	VITON
48	Seat O'ring	VITON
50	Upper body	1.4404
51	Upper body screw	A2 – 70
52	Upper body seal	RPTFE

DIMENSIONS

DN	PN	R27	D	d1xf	b	z x l	K	H6	H1	d2	B	SW	H3	H4	H5	ISO
125	40	325	270	188x3	26	8x26	220	192	258	56	16	43.6	64	60	5	F16
150		350	300	218x3	28	8x26	250	205	277							
200		400	375	285x3	34	12x30	320	230	310							
250		450	450	345x3	38	12x33	385	270	351							
300		500	515	410x4	42	16x33	450	295	386							

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- SOFT SEATS
- COMPENSATING AND PROTECTED SEATS
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION
- DOUBLE SELF ADJUSTING PACKING

Standards

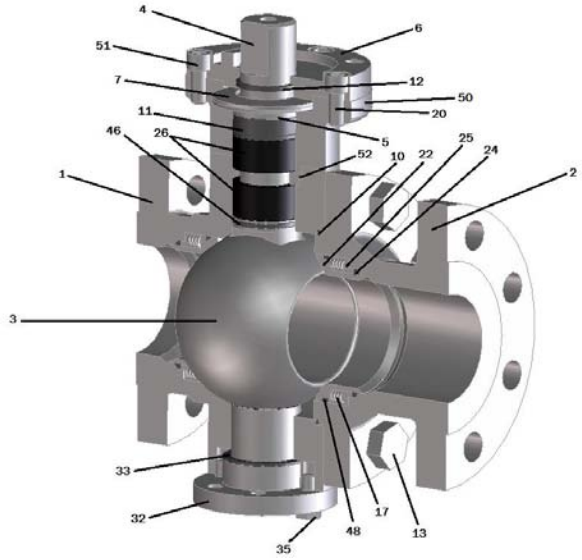
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

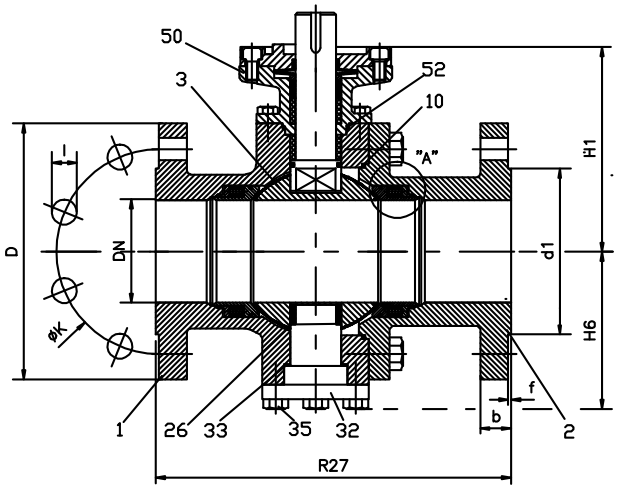
Official approvals

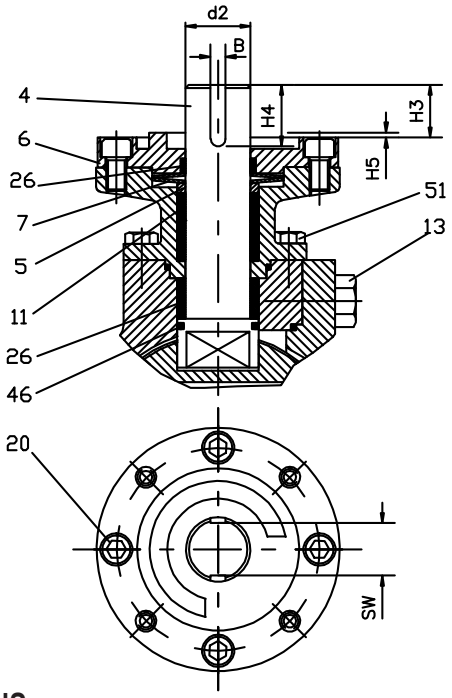
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

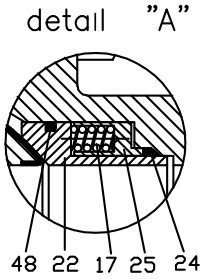
Sutein

TYPE 118G / 114G
DN-125/30 PN-40 R27









#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408
3	Ball	1.4408+CHR.CAR.
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
10	Body seal	GRAPHITE
11	Packing	GRAPHITE
13	Screw	A2 – 70
17	Spring	1.4401
20	Stopper screw	A2 – 70
22	Seat	1.4404 + Col.
24	Seat seal	GRAPHITE
25	Guide ring	1.4404
26	Stem G. ring	GRAPHITE
32	Trunnion	1.4404
33	Trunnion seal	RPTFE
35	Trunnion screw	A2 – 70
46	Stem O'ring	VITON
48	Seat O'ring	VITON
50	Upper body	1.4404
51	Upper body screw	A2 – 70
52	Upper body seal	GRAPHITE

DIMENSIONS

DN	PN	R27	D	d1xf	b	z x l	K	H6	H1	d2	B	SW	H3	H4	H5	ISO
125	40	325	270	188x3	26	8x26	220	192	258	56	16	43.6	64	60	5	F16
150		350	300	218x3	28	8x26	250	205	277							
200		400	375	285x3	34	12x30	320	230	310							
250		450	450	345x3	38	12x33	385	270	351							
300		500	515	410x4	42	16x33	450	295	386							

- Other materials and special alloys upon request.
- Auxiliary equipment such as shaft extensions, actuators, etc. can be assembled in plant at any time.
- Constant torque under temperature fluctuations.
- Guided ball to guarantee low torque at high pressures.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- GUIDED BALL
- METAL SEATS
- COMPENSATING AND PROTECTED SEATS
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURIZATION
- DOUBLE SELF ADJUSTING PACKING

Standards

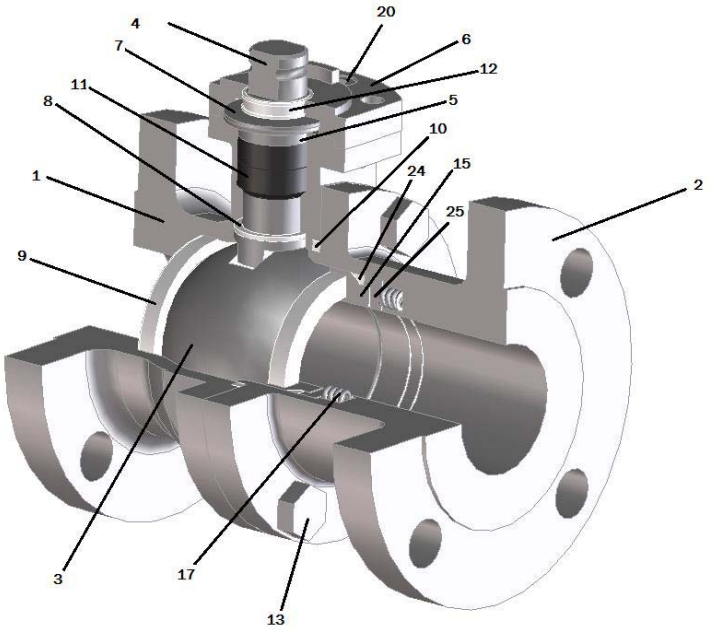
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE AISI B16.10
- FLANGES ANSI B16.5

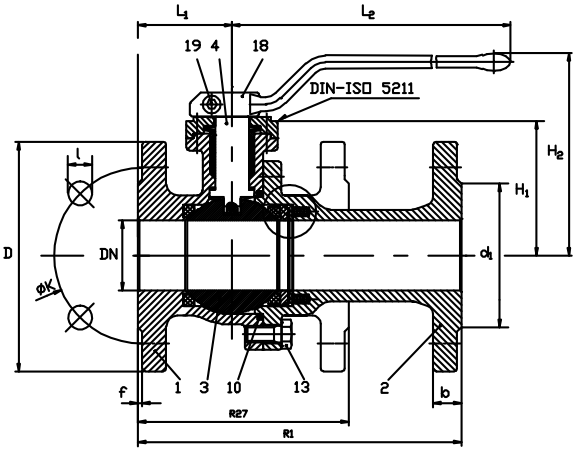
Official approvals

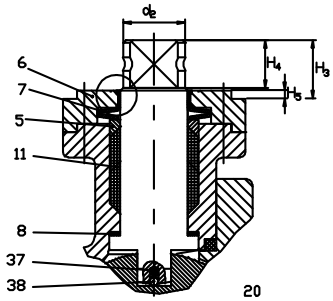
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

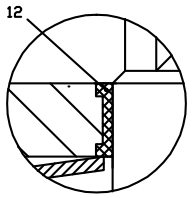
Sutein

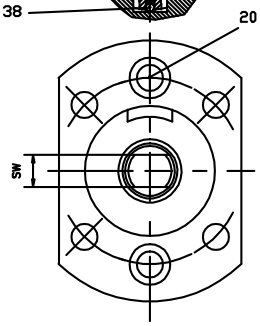
TYPE 113GL/125GL
DN-15/100 PN-16/40 R1/R27

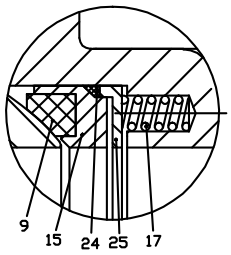












#	COMPONENTS	MATERIAL
1	Body	1.4408
2	Body end	1.4408 / 1.4404
3	Ball	1.4408 / 1.4404
4	Stem	1.4404
5	Gland follower	1.4404
6	Cover	1.4301
7	Spring plate	1.4301
8	Stem seal	RPTFE
9	Seat	RPTFE
10	Body seal	RPTFE
11	Packing	RPTFE
12	Cover seal	RPTFE
13	Screw	A2 – 70
15	Pressure ring	1.4404
17	Spring	1.4401
18	Handle	1.4408
19	Handle screw	A2 – 70
20	Stopper screw	A2 – 70
24	Seat seal	RPTFE
25	Guide ring	1.4404
37	Stem spring	1.4404
38	Ball stem	1.4404

DIMENSIONS

DN	PN	R27	R1	D	d1xf	b (PN16/PN40)	z x l	K	L1	H1	H2	L2	d2	SW	H3	H4	H5	ISO
15	16/40	115	130	95	45x2	14/16	4x14	65	52.5	48	95	160	14	11	14	11	2	F05
20	16/40	120	150	105	58x2	16/18	4x14	75	56	50.5	101							
25		125	160	115	68x2		4x14	85	58	59	115	180	18	14	17	14		
32		130	180	140	78x2		4x18	100	62	64.5	125							
40		140	200	150	88x3		4x18	110	64.5	87	135	282	22	17	21.5	17	3	F07
50		150	230	165	102x3	18/20	4x18	125	67	94.5	145							
65	16	170	290	185	122x3	18	4x18	145	78	107	157							
65	40					22	8x18											
80	16	180	310	200	138x3	20	8x18	160	81.5	106.5	197	450	26	19	23.5	19		F10
80	40					24												
100	16	190	350	220	158x3	20	8x18	180	87	134.5	212							
100	40			235	162x3	24	8x22	190										

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- DOUBLE SELF ADJUSTING PACKING
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE
- AUTOMATIC DEPRESSURTIZATION

Standards

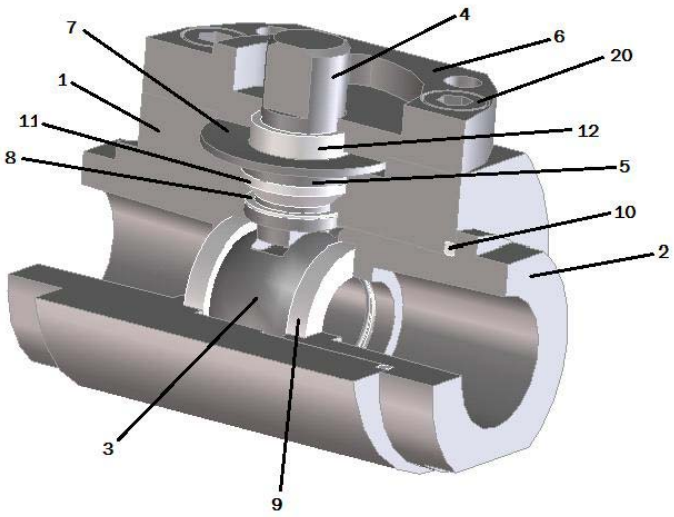
- TOP FLANGE ISO 5211
- FACE TO FACE EN 558-1
- FLANGES EN 1092-1
- FACE TO FACE ANSI B16.10
- FLANGES ANSI B16.5

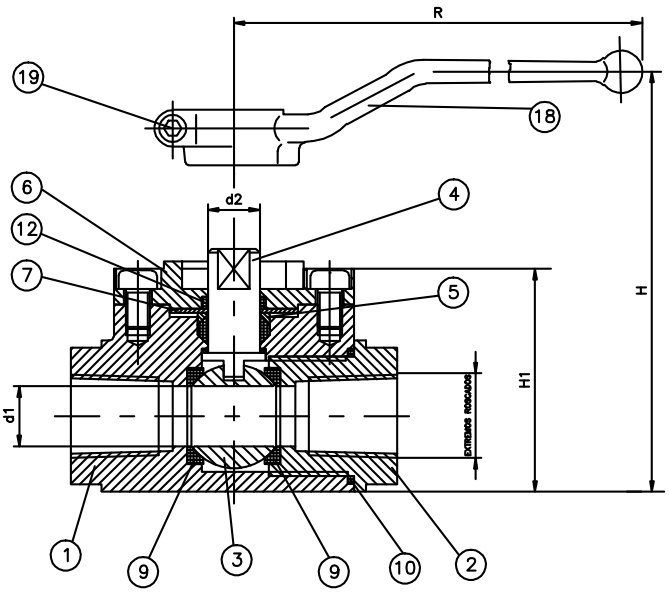
Official approvals

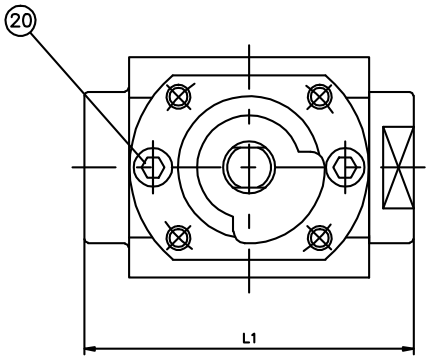
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

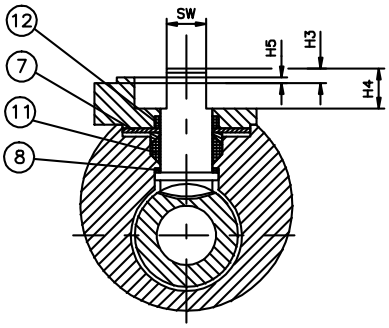
Sutein

TYPE 130/115TE
DN-15/50 CL-600 EXTREMOS ROSCADOS









#	COMPONENTS	MATERIAL
1	*Body*	1.4404
2	*Body end*	1.4404
3	*Ball*	1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	RPTFE
9	*Seat*	RPTFE
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
12	*Cover seal*	RPTFE
18	*Handle*	1.4408
19	*Handle screw*	A2 – 70
20	*Stopper screw*	A2 – 70

DIMENSIONS

DN	d1	L1	H	R	H1	d2	SW	H3	H4	H5	ISO
1/2"	15	80	74	180	37	13	10	5	10	2	F5
3/4"	20	85	78	180	40	13	10	13	18	2	F5
1"	25	98	82	180	43.5	13	10	13	18	2	F5
11/2"	38	118	109	300	69.5	17	12	17.5	22.5	3	F7
2"	50	130	121	300	78	17	12	17.5	22.5	3	F7

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT

Standards

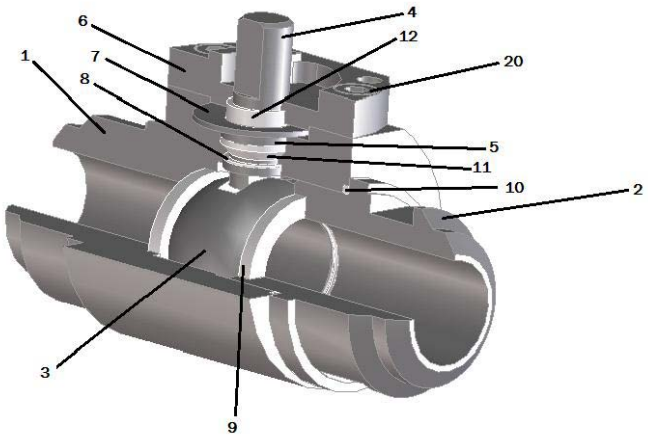
- TOP FLANGE ISO 5211
- FACE TO FACE ACCORDING TO DATA SHEET
- CONNECTIONS UNE-EN 12760

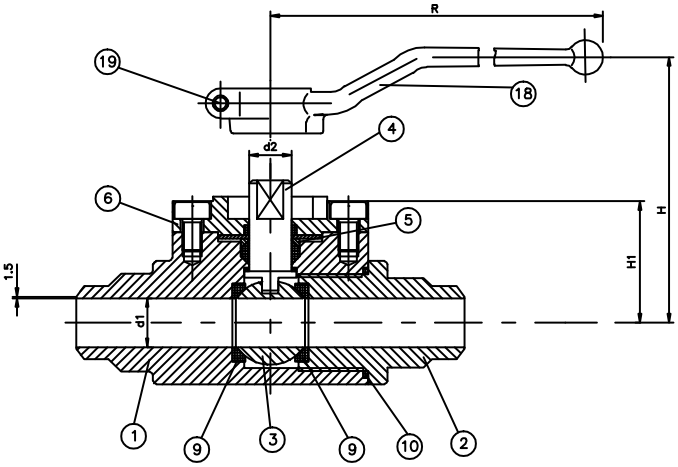
Official approvals

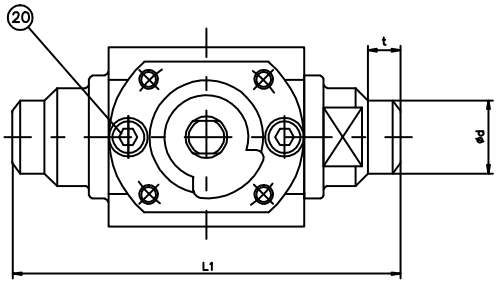
- ISO 9001-2008
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO

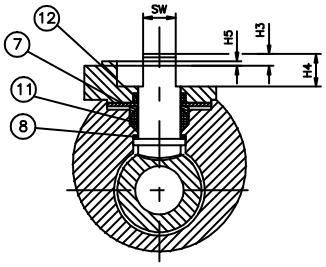
Sutein

TYPE 131/115 BW
DN-15/50 CL-600









#	COMPONENTS	MATERIAL
1	*Body*	1.4404
2	*Body end*	1.4404
3	*Ball*	1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	RPTFE
9	*Seat*	RPTFE
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
12	*Cover seal*	RPTFE
18	*Handle*	1.4408
19	*Handle screw*	A2 – 70
20	*Stopper screw*	A2 – 70

DIMENSIONS

DN	d1	L1	H	R	H1	d2	SW	H3	H4	H5	ISO	t	d
1/2"	15	130.5	74	180	37	13	10	5	10	2	F5	8	22
3/4"	20	137	78	180	40	13	10	13	18	2	F5	8	28
1"	25	143	82	180	43.5	13	10	13	18	2	F5	8	35
11/2"	38	182	109	300	69.5	17	12	17.5	22.5	3	F7	11	50
2"	50	202	121	300	78	17	12	17.5	22.5	3	F7	11	62

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT
- ANTI BLOW OUT STEM
- ANTI STATIC DEVICE

Standards

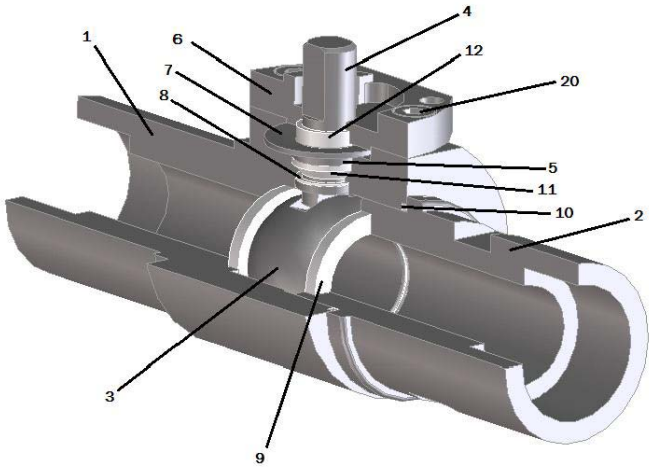
- TOP FLANGE ISO 5211
- FACE TO FACE ACCORDING TO DATA SHEET
- CONNECTIONS UNE-EN 12760

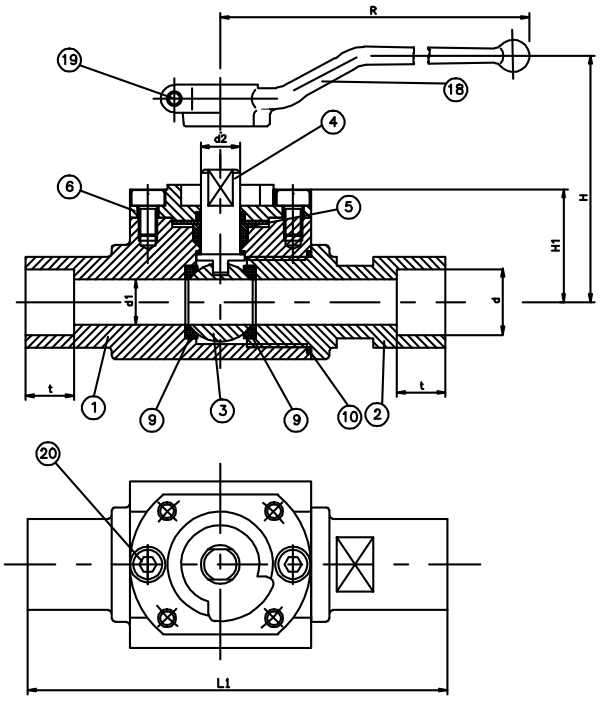
Official approvals

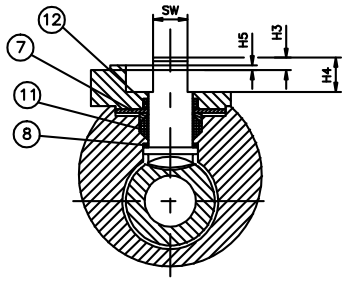
- ISO 9001-2015
- ISO 15848-1
- API 6D
- PED 2014/68/EU
- AD 2000 Merkblatt WO
- FIRE SAFE
- TA-LUFT/ VDI 2440
- ATEX 94/9/EC
- IEC EN 61508:2010 (SIL 3)

Sutein

TYPE 131/115 SW
DN-15/50 CL-600







#	COMPONENTS	MATERIAL
1	*Body*	1.4404
2	*Body end*	1.4404
3	*Ball*	1.4404
4	*Stem*	1.4404
5	*Gland follower*	1.4404
6	*Cover*	1.4301
7	*Spring plate*	1.4301
8	*Stem seal*	RPTFE
9	*Seat*	RPTFE
10	*Body seal*	RPTFE
11	*Packing*	RPTFE
12	*Cover seal*	RPTFE
18	*Handle*	1.4408
19	*Handle screw*	A2 – 70
20	*Stopper screw*	A2 – 70

DIMENSIONS

DN	d1	L1	H	R	H1	d2	SW	H3	H4	H5	ISO	t	d
1/2"	15	130.5	74	180	37	13	10	5	10	2	F5	16	21.8
3/4"	20	137	78	180	40	13	10	13	18	2	F5	18	27.2
1"	25	143	82	180	43.5	13	10	13	18	2	F5	20	34
11/2"	38	182	109	300	69.5	17	12	17.5	22.5	3	F7	24	48.9
2"	50	202	121	300	78	17	12	17.5	22.5	3	F7	26	61.2

- Other materials and special alloys upon request.
- Seat ring materials depend on fluid and differential pressure.

Main features

- BIDIRECTIONAL
- 2 PIECES
- FULL BORE
- FLOATING BALL
- SOFT SEAT

Standards

- TOP FLANGE ISO 5211
- FACE TO FACE ACCORDING TO DATA SHEET
- CONNECTIONS UNE-EN 12760

Official approvals

- ISO 9001-2015
- ISO 15848-1
- API 6D
- 2014/68/EU
- AD 2000 Merkblatt WO

www.sutein.com

Sutein

SUBMINISTRES INDUSTRIALS SUTEIN, SL
Polígono Industrial "La Serra II"
C/ Priorat, 6 • 08185 Lliçà de Vall (Barcelona)
T 902 401 410 - 938 634 281 • F 938 436 148
www.sutein.com • sutein@sutein.com