

BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI Full trunnion

Description

General features

- Class 150 / Class 300
- Full trunnion
- Full bore
- Soft seat / Metal Seat
- Self-relief seats
- Bidirectional
- Fire safe
- Anti blow out stem
- Autoadjustable packing
- Double block and bleed
- Antistatic stem
- Spring loaded seat system
- Low emission design

Standards

- Design ANSI B16.34
- Face to face Pecos Standard
- Top flange ISO 5211
- Material according NACE MR-0175
- Testing API 598, ISO 5208
- Fire safe API 607, API 6FA, ISO 10497
- Available ends: SW, BW, NPT, BSPP, BSPT, RF, RTJ, Plain end, nipples...

DIN standard

This valve is also available according to DIN standard.

Design

Z = Z-stem

G = Guided ball

S = Sprind seat

Material body

14 = Carbon steel A-105

16 = Stainless steel AISI 316

19 = Carbon steel A352 LCC

34 = Carbon steel A216 WCC

36 = Stainless steel A351 CF8M

39 = Carbon steel A352 LCC

Material other parts

S = Seat PTFE (modified)+CG

S = Stem packing PTFE (modified)+CG

S = Body seal PTFE (modified)+CG

G = Body seal 2 Graphite

V = Stem seal FKM



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ZGS	16	SSSGV	150	6" - 12"	5
ZGS	19	SSSGV	150	1 1/2" - 4"	6
ZGS	19	SSSGV	150	6" - 12"	7
ZGS	34	SSSGV	300	1 1/2" - 4"	8
ZGS	34	SSSGV	300	6" - 12"	9
ZGS	36	SSSGV	300	1 1/2" - 4"	10
ZGS	36	SSSGV	300	6" - 12"	11
ZGS	39	SSSGV	300	1 1/2" - 4"	12
ZGS	39	SSSGV	300	6" - 12"	13

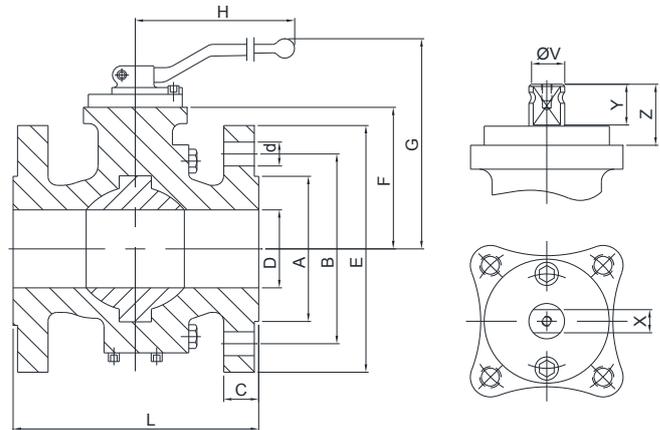
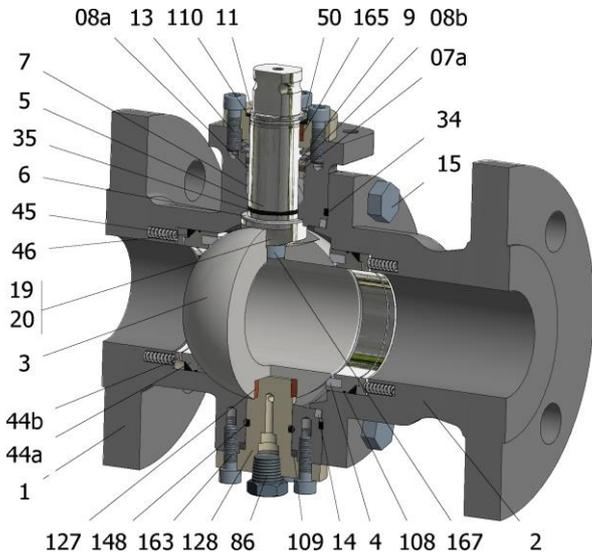
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS I4 SSSGV Class 150 | 1/2" - 4"



Position	Description	Material
01	Body 1	C.S. A-105
02	Body 2	C.S. A-105
03	Ball	A182 F316
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU
128	Body cover 2	C.S. A-105
148	O ring cover	FKM
163	Body cover 2 bolt	S.S. (316)
165	Stem bearing	PTFE (modified)+FG
167	Stem guide bolt	S.S. (316)

General features

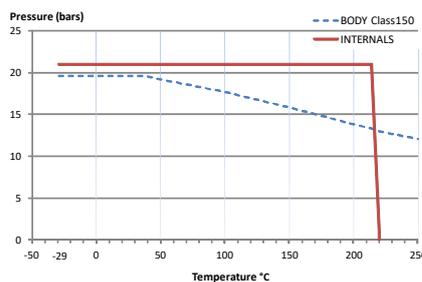
- Full trunnion.
- Split body.
- Full bore.
- Soft seat.
- Bidirectional.
- Spring loaded seat system.
- Anti Blow out proof stem.
- Autoadjustable packing.
- Anti static device.
- Self-cavity pressure relief.
- Double Block and Bleed.

Standards

- Top flange ISO 5211
- Flanges ANSI B16.5
- Face to face ANSI B16.10
- Testing API 598, API 6D, BS 6755-1
- Design API 6D, B16.34
- Materials according to NACE MR0175

Official approvals

- CERTIFICATE FIRE SAFE
- TA-LUFT VDI 2440
- ISO 15848-1
- API 6D.
- ATEX 2014/34/EU
- PED 2014/68/EU
- SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
1 1/2"	150	40	165	125	73	98	16	75	293	145	22	17	20	30	4 x 16	F07	50	550	9
2"	150	50	178	150	92	121	17	83	293	153	22	17	20	30	4 x 19	F07	60	550	12
2 1/2"	150	65	190	180	105	140	19	96	293	166	22	17	20	30	4 x 19	F07	110	550	17
3"	150	75	203	190	127	152	21	116	450	199	28	22	22	40	4 x 19	F10	150	1147	24
4"	150	100	229	230	157	191	25	128	450	221	28	22	22	40	8 x 19	F10	255	1147	36

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

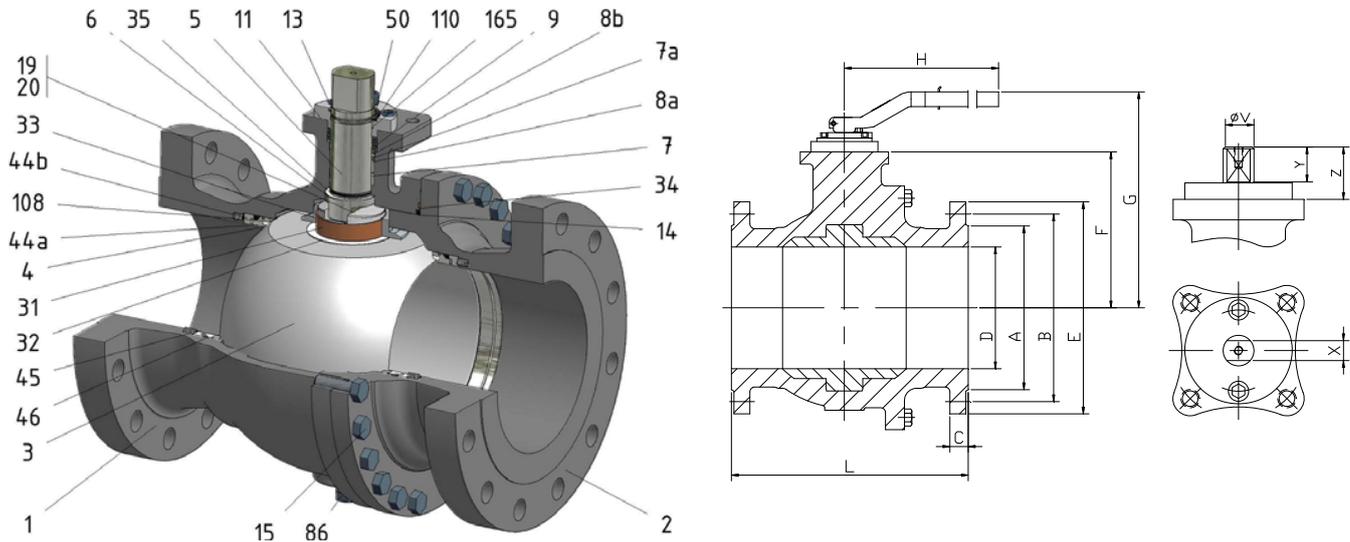
* Torque values have been measured ΔP at maximum rating at room temperature

BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI Full trunnion

ZGS 14 SSSGV Class 150 6" - 12"



Position	Description	Material
01	Body 1	C.S. A216 WCC
02	Body 2	C.S. A216 WCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing 1	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
23	Handle pin	S.S. AISI 420
24	Lengthening handle	A570
31	Bearing	PTFE (modified)+CG
32	Bearing disk	PTFE (modified)+FG
33	Support bearing	S.S. AISI 316
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

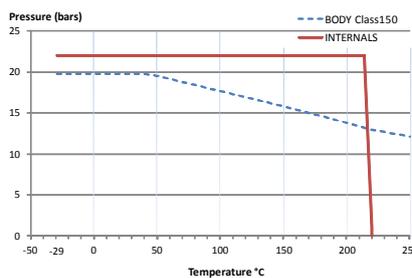
- Full trunnion.
- Split body.
- Full bore.
- Soft seat.
- Bidirectional.
- Spring loaded seat system.
- Anti Blow out proof stem.
- Autoadjustable packing.
- Anti static device.
- Self-cavity pressure relief.
- Double Block and Bleed.

Standards

- Top flange ISO 5211
- Flanges ANSI B16.5
- Face to face ANSI B16.10
- Testing API 598, API 6D, BS 6755-1
- Design API 6D, B16.34
- Materials according to NACE MR0175

Official approvals

- CERTIFICATE FIRE SAFE TA-LUFT VDI 2440
- ISO 15848-1
- ATEX 2014/34/EU API 6D.
- PED 2014/68/EU SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001-2008 / 2014/68/EU / API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	150	150	394	280	216	241	27	176	740	285	36	27	35	44	8 x 22	F14-1	640	2356,2	100
8"	150	200	457	345	270	299	30	245	750	354	48	36	40	63	8 x 22	F16-1	990	5585,0	148
10"	150	250	533	405	324	362	32	285	-	-	48	36	40	63	12 x 25	F16-1	1340	5585,0	241
12"	150	300	610	485	381	432	33	329	-	-	48	36	40	63	12 x 25	F16-1	1660	5585,0	374

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilogram

* Torque values have been measured ΔP at maximum rating at room temperature

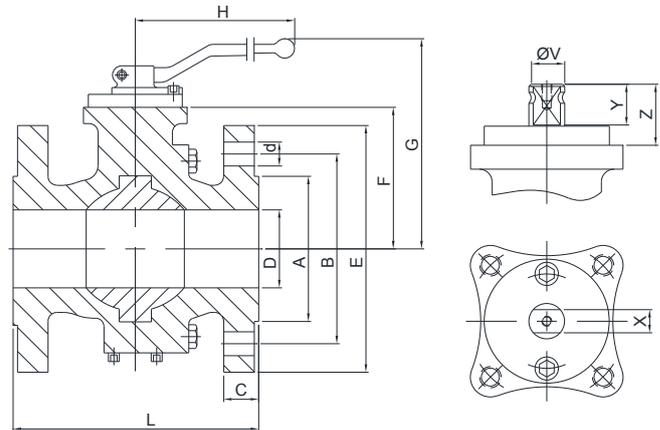
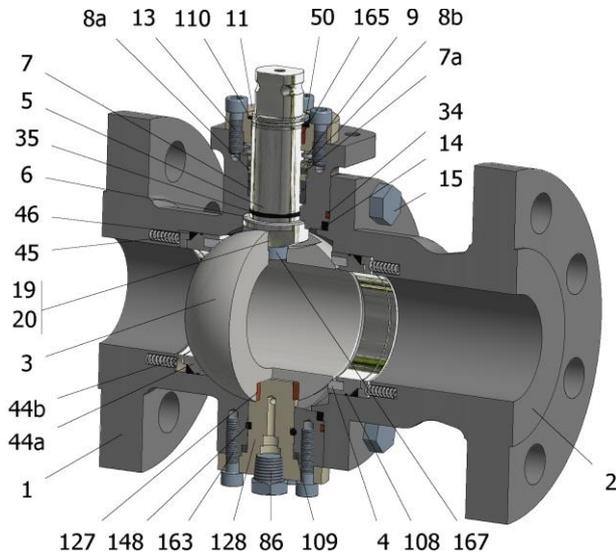
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 16 SSSGV Class 150 | 1/2" - 4"



Position	Description	Material
01	Body 1	S.S. AISI 316
02	Body 2	S.S. AISI 316
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. AISI 316
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B8M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 304
86	Drain plug	S.S. AISI 316
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU-316
128	Body cover 2	S.S. AISI 316
148	O ring cover	FKM
163	Body cover 2 bolt	S.S. (316)
165	Stem bearing	PTFE (modified)+FG
167	Stem guide bolt	S.S. (316)

General features

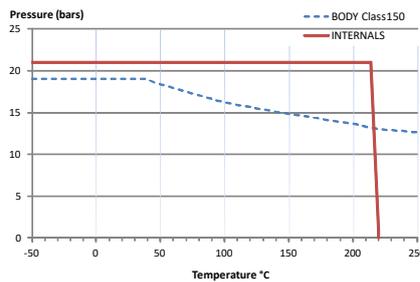
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design API 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
API 6D.
ATEX 2014/34/EU
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
1 1/2"	150	40	165	125	73	98	16	75	293	145	22	17	20	30	4 x 16	F07	50	550	9
2"	150	50	178	150	92	121	17	83	293	153	22	17	20	30	4 x 19	F07	60	550	12
2 1/2"	150	65	190	180	105	140	19	96	293	166	22	17	20	30	4 x 19	F07	110	550	17
3"	150	75	203	190	127	152	21	116	450	199	28	22	22	40	4 x 19	F10	150	1147	24
4"	150	100	229	230	157	191	25	128	450	221	28	22	22	40	8 x 19	F10	255	1147	36

** Depending on service conditions.

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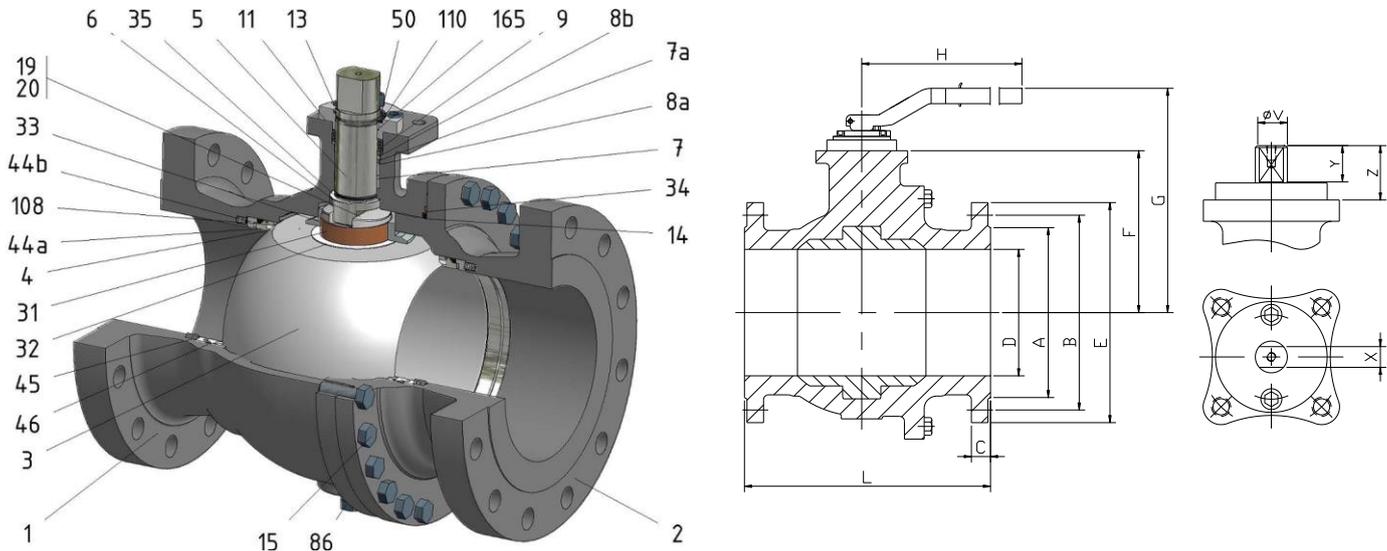
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 16 SSSGV Class 150 6" - 12"



Position	Description	Material
01	Body 1	S.S. A351 CF8M
02	Body 2	S.S. A351 CF8M
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. AISI 316
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B8M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
23	Handle pin	S.S. AISI 420
24	Lengthening handle	A570
31	Bearing	PTFE (modified)+CG
32	Bearing disk	PTFE (modified)+FG
33	Support bearing	S.S. AISI 316
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 304
86	Drain plug	S.S. AISI 316
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

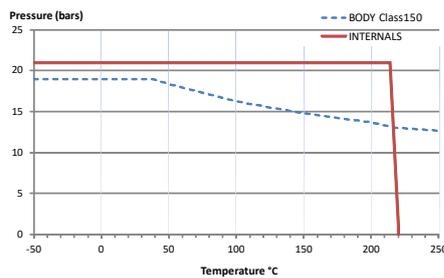
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design AP 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
ATEX 2014/34/EU
API 6D.
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU / API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	150	150	394	279	216	241	25	182	740	276	36	27	35	44	8 x 22	F14-1	450	2356	100
8"	150	201	457	343	270	298	29	245	750	338	48	36	40	63	8 x 22	F16-1	695	5585	148
10"	150	252	533	406	324	362	30	285	-	-	48	36	40	63	12 x 25	F16-1	940	5585	241
12"	150	303	610	483	381	432	32	329	-	-	48	36	40	63	12 x 25	F16-1	1160	5585	374

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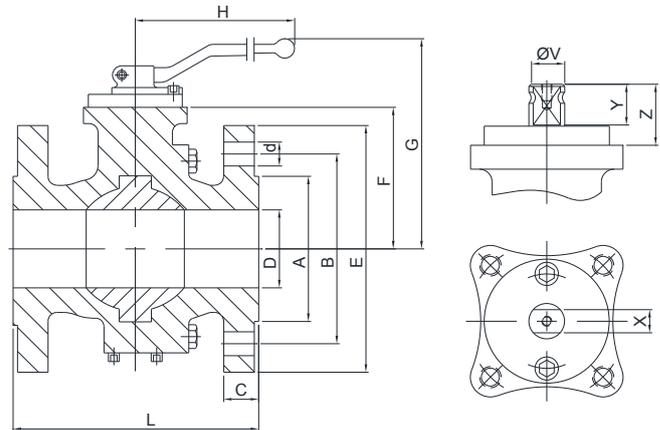
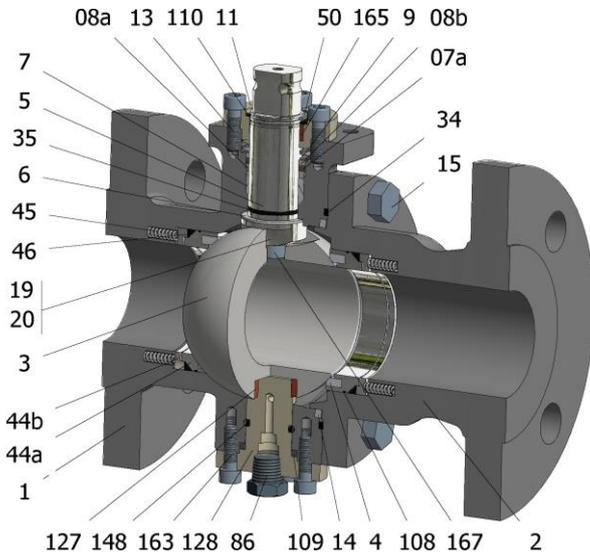
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 19 SSSGV Class 150 | 1/2" - 4"



Position	Description	Material
01	Body 1	C.S. A352 LCC
02	Body 2	C.S. A352 LCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A320 L7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU
128	Body cover 2	C.S. A350 LF2
148	O ring cover	FKM
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General features

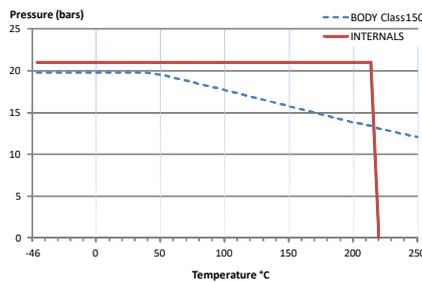
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Official approvals

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- TA-LUFT VDI 2440
- ISO 15848-1
- API 6D.
- ATEX 2014/34/EU
- PED 2014/68/EU
- SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

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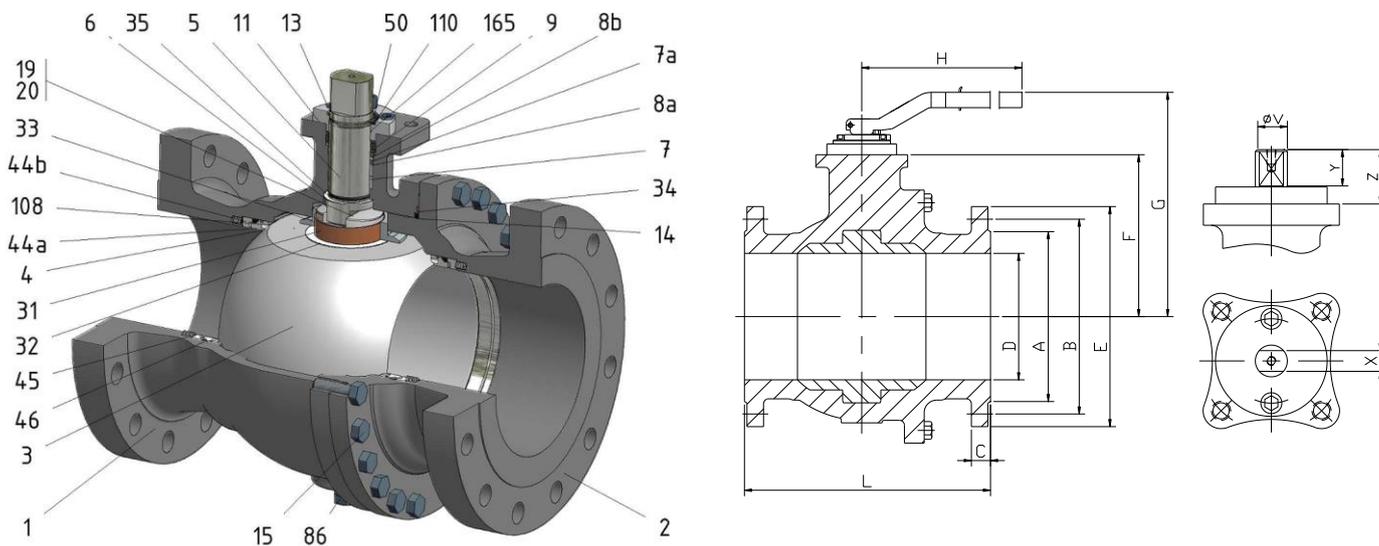
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BALL VALVE

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2-piece ANSI Full trunnion

ZGS 19 SSSGV Class 150 6" - 12"



Position	Description	Material
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86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

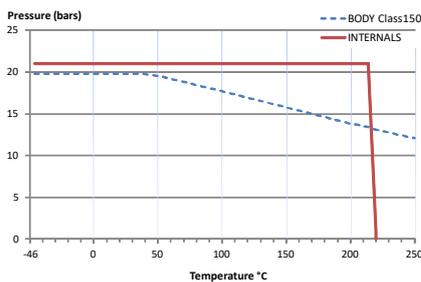
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design API 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
API 6D.
ATEX 2014/34/EU
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU / API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	150	150	394	280	216	241	27	182	740	285	36	27	35	44	8 x 22	F14-1	450	2356	100
8"	150	200	457	345	270	299	30	245	750	354	48	36	40	63	8 x 22	F16-1	695	5585	148
10"	150	250	533	405	324	362	32	285	-	-	48	36	40	63	12 x 25	F16-1	940	5585	241
12"	150	300	610	485	381	432	33	329	-	-	48	36	40	63	12 x 25	F16-1	1160	5585	374

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

* Torque values have been measured ΔP at maximum rating at room temperature

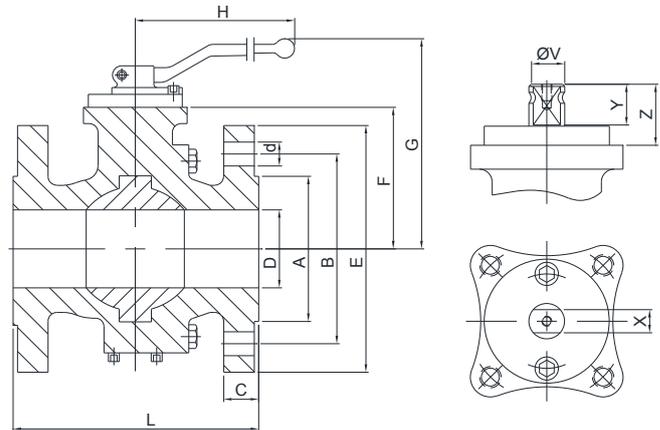
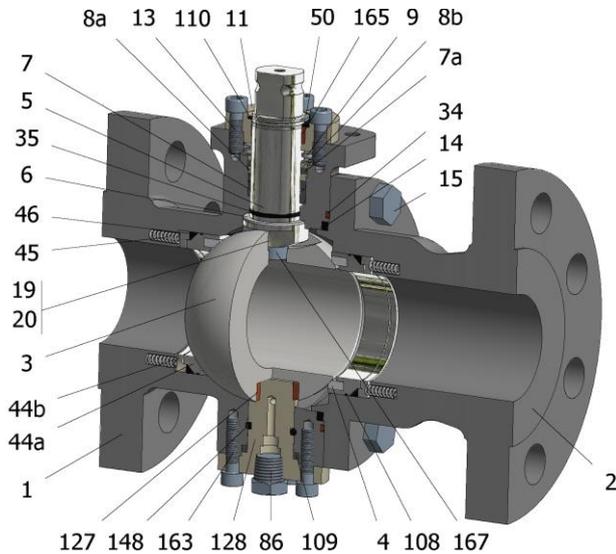
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 34 SSSGV Class 300 | 1/2" - 4"



Position	Description	Material
01	Body 1	C.S. A216 WCC
02	Body 2	C.S. A216 WCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU
128	Body cover 2	C.S. A-105
148	O ring cover	FKM
163	Body cover 2 bolt	S.S. (316)
165	Stem bearing	PTFE (modified)+FG
167	Stem guide bolt	A4-70 Nitrided

General features

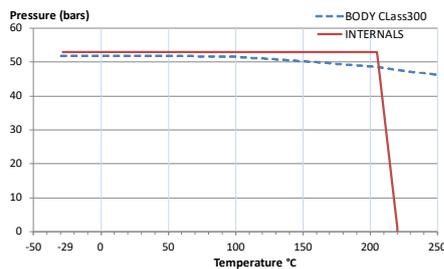
- Full trunnion.
- Split body.
- Full bore.
- Soft seat.
- Bidirectional.
- Spring loaded seat system.
- Anti Blow out proof stem.
- Autoadjustable packing.
- Anti static device.
- Self-cavity pressure relief.
- Double Block and Bleed.

Standards

- Top flange ISO 5211
- Flanges ANSI B16.5
- Face to face ANSI B16.10
- Testing API 598, API 6D, BS 6755-1
- Design API 6D, B16.34
- Materials according to NACE MR0175

Official approvals

- CERTIFICATE FIRE SAFE
- TA-LUFT VDI 2440
- ISO 15848-1
- ATEX 2014/34/EU
- API 6D.
- PED 2014/68/EU
- SIL 3 CAPABLE
- EN 161/EN ISO 23553-1



PEKOS GROUP CERTIFICATES:



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
1 1/2"	300	40	190	155	73	114	22	75	293	145	22	17	20	30	4 x 22	F07	65	550	14
2"	300	50	216	165	92	127	24	83	293	153	22	17	20	25	8 x 19	F10-1	85	550	20
2 1/2"	300	65	241	190	105	149	27	96	293	166	22	17	20	25	8 x 22	F10-1	150	550	27
3"	300	75	282	210	127	168	30	116	450	199	28	22	22	36	8 x 22	F12-1	210	1147	42
4"	300	100	305	255	157	200	33	128	450	221	28	22	22	36	8 x 22	F12-1	345	1147	68

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

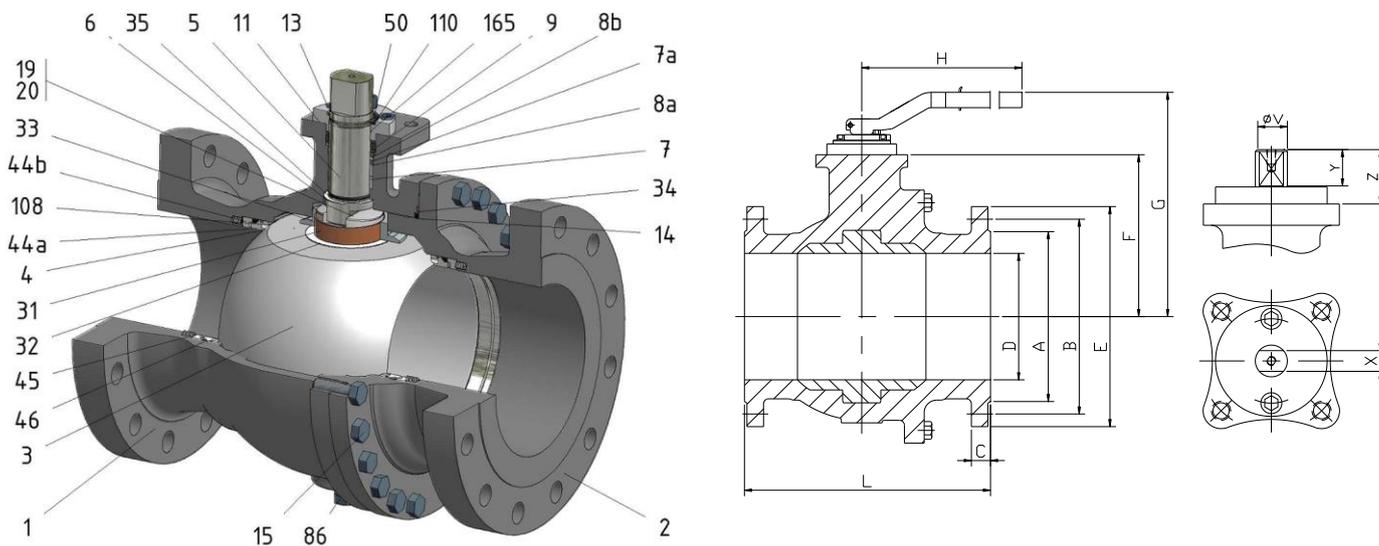
* Torque values have been measured ΔP at maximum rating at room temperature

BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI Full trunnion

ZGS 34 SSSGV Class 300 6" - 12"



Position	Description	Material
01	Body 1	C.S. A216 WCC
02	Body 2	C.S. A216 WCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
23	Handle pin	S.S. AISI 420
24	Lengthening handle	A570
31	Bearing	PTFE (modified)+CG
32	Bearing disk	PTFE (modified)+FG
33	Support bearing	S.S. AISI 316
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

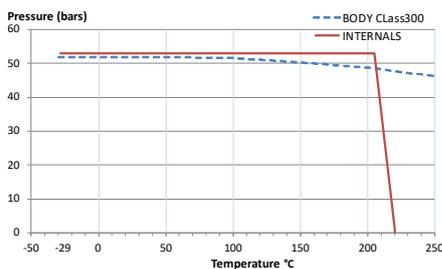
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design API 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
API 6D.
ATEX 2014/34/EU
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	300	150	403	320	216	270	38	182	740	285	36	27	35	44	12 x 22	F14-1	693	2356	117
8"	300	201	502	380	270	330	43	245	750	354	48	36	40	63	12 x 25	F16-1	1085	5585	197
10"	300	252	568	445	324	387	49	285	-	-	48	36	40	63	16 x 29	F16-1	1414	5585	313
12"	300	303	648	520	381	451	52	329	-	-	48	36	40	63	16 x 32	F16-1	1715	5585	400

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

* Torque values have been measured ΔP at maximum rating at room temperature

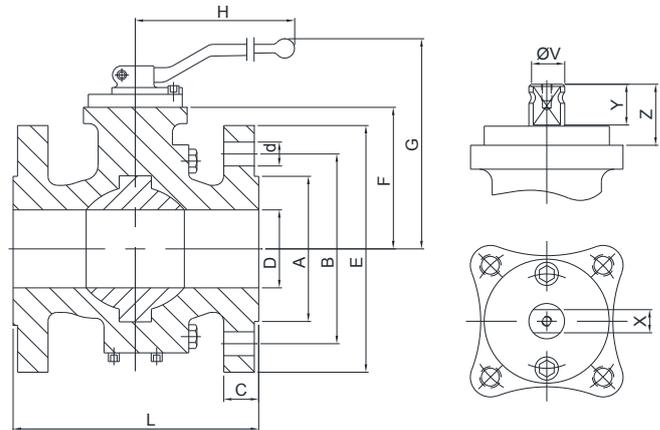
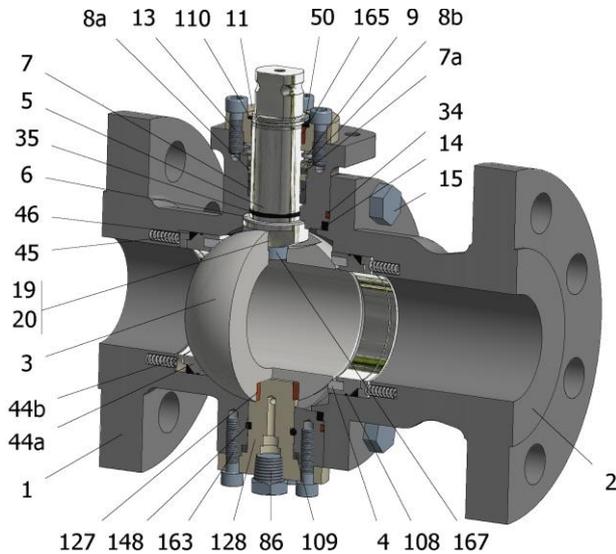
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 36 SSSGV Class 300 | 1/2" - 4"



Position	Description	Material
01	Body 1	S.S. A351 CF8M
02	Body 2	S.S. A351 CF8M
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B8M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	S.S. AISI 316
86a	Vent plug	S.S. AISI 316
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU-316
128	Body cover 2	S.S. AISI 316
148	O ring cover	FKM
163	Body cover 2 bolt	S.S. (316)
165	Stem bearing	PTFE (modified)+FG
167	Stem guide bolt	S.S. (316)

General features

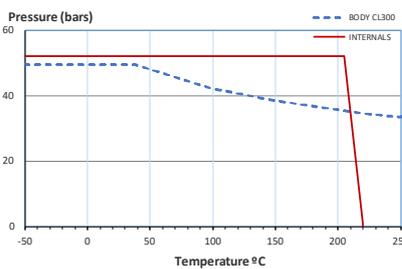
- Full trunnion.
- Split body.
- Full bore.
- Soft seat.
- Bidirectional.
- Spring loaded seat system.
- Anti Blow out proof stem.
- Autoadjustable packing.
- Anti static device.
- Self-cavity pressure relief.
- Double Block and Bleed.

Standards

- Top flange ISO 5211
- Flanges ANSI B16.5
- Face to face ANSI B16.10
- Testing API 598, API 6D, BS 6755-1
- Design API 6D, B16.34
- Materials according to NACE MR0175

Official approvals

- CERTIFICATE FIRE SAFE
- TA-LUFT VDI 2440
- ISO 15848-1
- API 6D.
- ATEX 2014/34/EU
- PED 2014/68/EU
- SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
1 1/2"	300	40	190	155	73	114	22	75	293	146	22	17	20	30	4 x 22	F07	65	550	14
2"	300	50	216	165	92	127	24	83	293	153	22	17	20	25	8 x 19	F10-1	85	550	20
2 1/2"	300	65	241	190	105	149	27	96	293	166	22	17	20	25	8 x 22	F10-1	148	550	27
3"	300	75	282	210	127	168	30	116	450	199	28	22	22	36	8 x 22	F12-1	210	1150	42
4"	300	100	305	255	157	200	33	128	450	221	28	22	22	36	8 x 22	F12-1	340	1150	68

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

* Torque values have been measured ΔP at maximum rating at room temperature

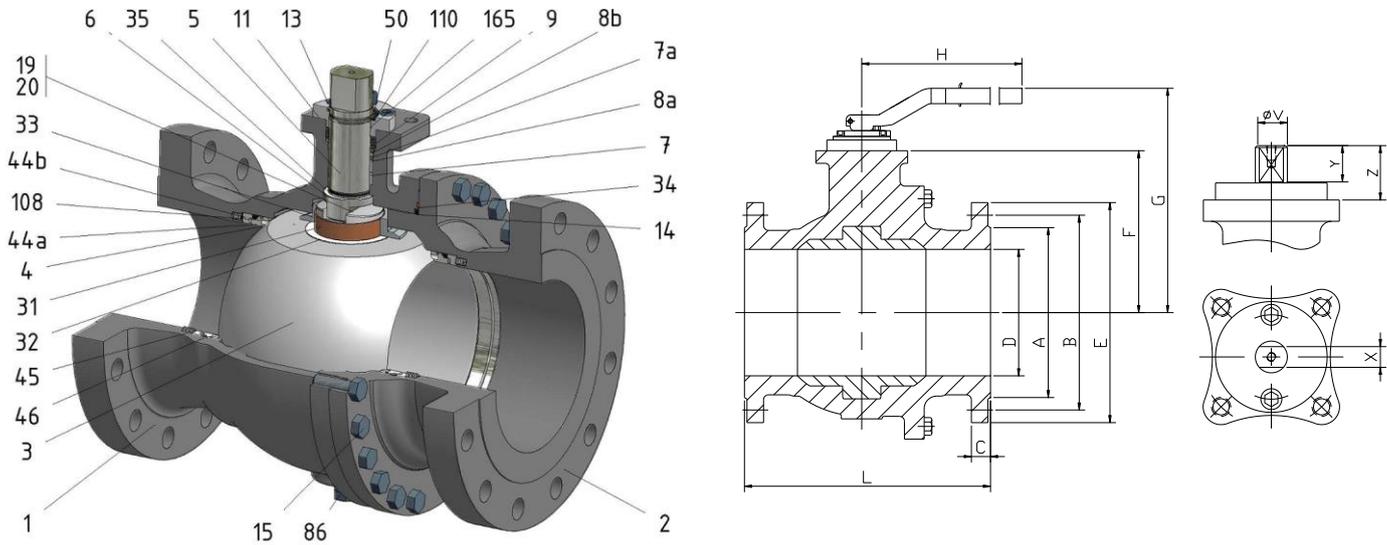
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 36 SSSGV Class 300 6" - 12"



Position	Description	Material
01	Body 1	S.S. A351 CF8M
02	Body 2	S.S. A351 CF8M
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. AISI 316
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A193 B8M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
23	Handle pin	S.S. AISI 420
24	Lengthening handle	A570
31	Bearing	PTFE (modified)+CG
32	Bearing disk	PTFE (modified)+FG
33	Support bearing	S.S. AISI 316
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 304
86	Drain plug	S.S. AISI 316
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

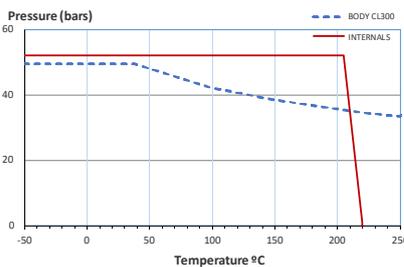
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design AP 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
ATEX 2014/34/EU
API 6D.
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	300	150	403	320	216	270	38	182	740	285	36	27	35	44	12 x 22	F14-1	693	2356	117
8"	300	201	502	380	270	330	43	245	750	354	48	36	40	63	12 x 25	F16-1	1085	5585	197
10"	300	252	568	445	324	387	49	285	-	-	48	36	40	63	16 x 29	F16-1	1414	5585	313
12"	300	303	648	520	381	451	52	329	-	-	48	36	40	63	16 x 32	F16-1	1715	5585	400

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

* Torque values have been measured ΔP at maximum rating at room temperature

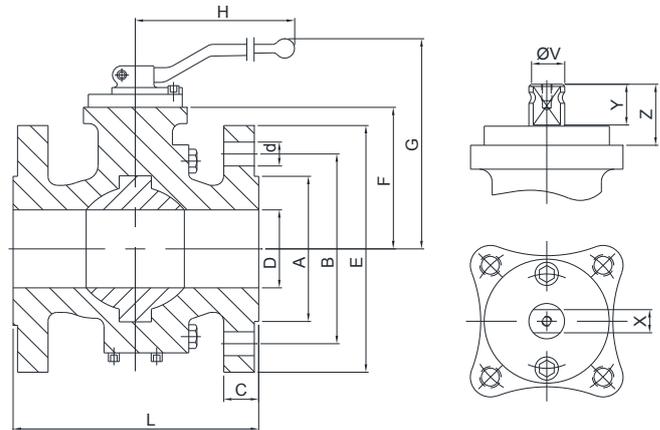
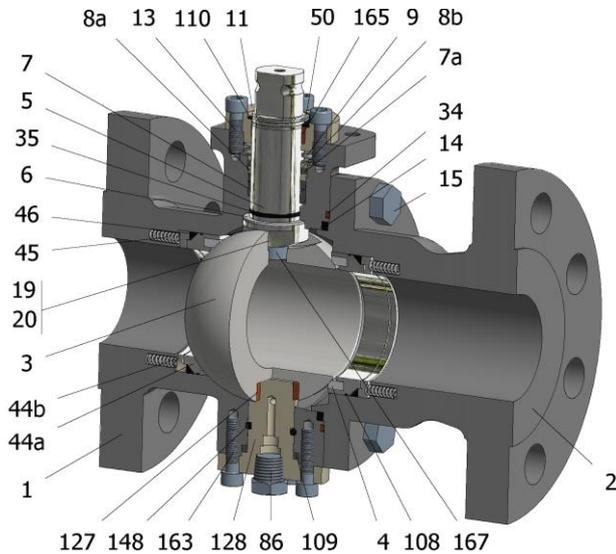
BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI

Full trunnion

ZGS 39 SSSGV Class 300 | 1/2" - 4"



Position	Description	Material
01	Body 1	C.S. A352 LCC
02	Body 2	C.S. A352 LCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A320 L7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
109	Cover seal	Graphite
110	Subjection ring seal	S.S. AISI 316 Nitrided
127	Stem bearing	MU
128	Body cover 2	C.S. A350 LF2
148	O ring cover	FKM
163	Body cover 2 bolt	S.S. (316)
165	Stem bearing	PTFE (modified)+FG
167	Stem guide bolt	S.S. (316)

General features

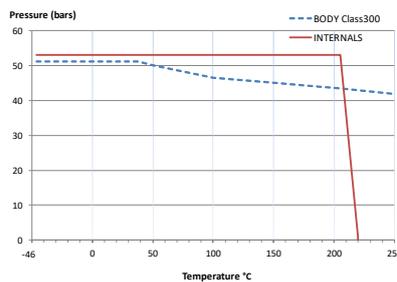
Full trunnion.
Split body.
Full bore.
Soft seat.
Bidirectional.
Spring loaded seat system.
Anti Blow out proof stem.
Autoadjustable packing.
Anti static device.
Self-cavity pressure relief.
Double Block and Bleed.

Standards

Top flange ISO 5211
Flanges ANSI B16.5
Face to face ANSI B16.10
Testing API 598, API 6D, BS 6755-1
Design API 6D, B16.34
Materials according to NACE MR0175

Official approvals

CERTIFICATE FIRE SAFE
TA-LUFT VDI 2440
ISO 15848-1
API 6D.
ATEX 2014/34/EU
PED 2014/68/EU
SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
1 1/2"	300	40	190	155	73	114	22	75	293	145	22	17	20	30	4 x 22	F07	65	550	14
2"	300	50	216	165	92	127	24	83	293	153	22	17	20	25	8 x 19	F10-1	85	550	20
2 1/2"	300	65	241	190	105	149	27	96	293	166	22	17	20	25	8 x 22	F10-1	150	550	27
3"	300	75	282	210	127	168	30	116	450	199	28	22	22	36	8 x 22	F12-1	210	1147	42
4"	300	100	305	255	157	200	33	128	450	221	28	22	22	36	8 x 22	F12-1	345	1147	68

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

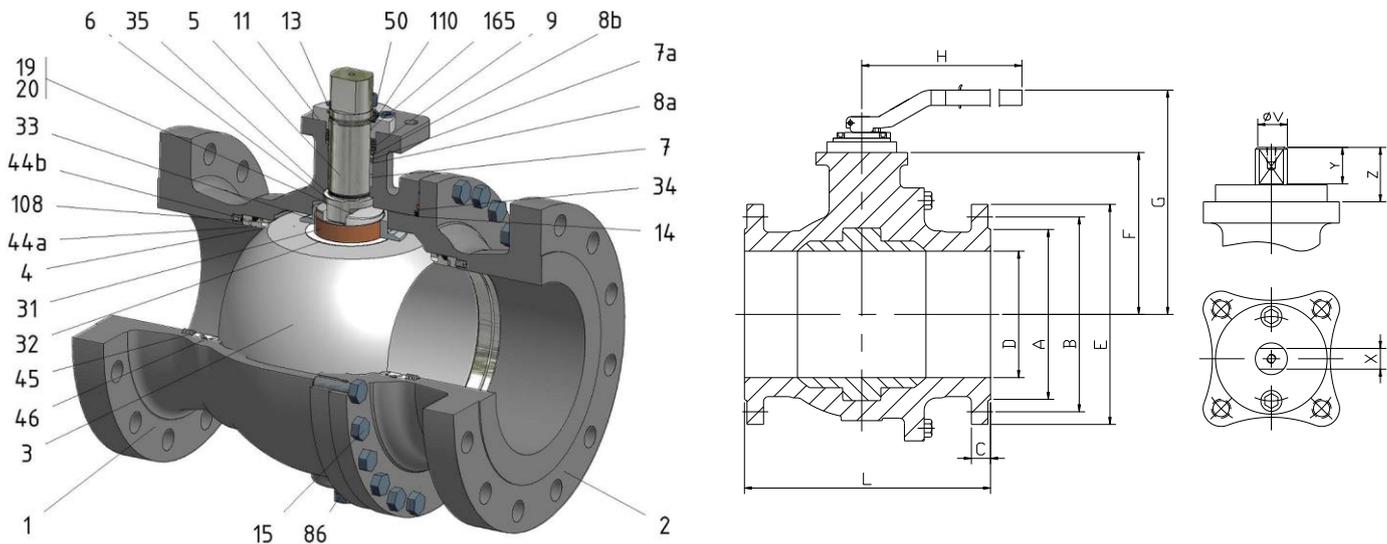
* Torque values have been measured ΔP at maximum rating at room temperature

BALL VALVE

Type AL 29-T-ZGS

2-piece ANSI Full trunnion

ZGS 39 SSSGV Class 300 6" - 12"



Position	Description	Material
01	Body 1	C.S. A352 LCC
02	Body 2	C.S. A352 LCC
03	Ball	S.S. A351 CF8M
04	Seat	PTFE (modified)+CG
05	Stem	A182 F51
06	Stem seal	PTFE (modified)+CG
07	Stem packing	PTFE (modified)+CG
07a	Stem packing 2	Graphite
08a	Gland packing 1	S.S. AISI 316
08b	Gland packing 2	S.S. AISI 316
09	Spring washer	S.S. AISI 301
11	Cover	S.S. A351 CF8M
13	Cover bolt	S.S. (316)
14	Body seal 1	PTFE (modified)+CG
15	Body bolt	A320 L7M
16	Handle	WCB
17	Handle bolt	1.045(8.8)
19	Spring	Inconel X750
20	Antistatic ball	Inconel 625
23	Handle pin	S.S. AISI 420
24	Lengthening handle	A570
31	Bearing	PTFE (modified)+CG
32	Bearing disk	PTFE (modified)+FG
33	Support bearing	S.S. AISI 316
34	Body seal 2	Graphite
35	O ring stem	FKM
44a	Ring seat 1	S.S. AISI 316
44b	Ring seat 2	S.S. AISI 316
45	Spring seat	Inconel X750
46	Seat seal	Graphite
50	Subjection ring	S.S. AISI 420
86	Drain plug	C.S. A350 LF2
86a	Vent plug	C.S. A350 LF2
108	O ring seat	FKM
110	Subjection ring seal	S.S. AISI 316 Nitrided
165	Stem bearing	PTFE (modified)+FG

General features

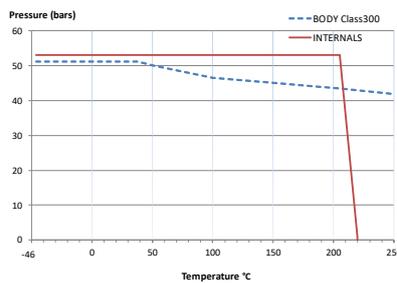
- Full trunnion.
- Split body.
- Full bore.
- Soft seat.
- Bidirectional.
- Spring loaded seat system.
- Anti Blow out proof stem.
- Autoadjustable packing.
- Anti static device.
- Self-cavity pressure relief.
- Double Block and Bleed.

Standards

- Top flange ISO 5211
- Flanges ANSI B16.5
- Face to face ANSI B16.10
- Testing API 598, API 6D, BS 6755-1
- Design API 6D, B16.34
- Materials according to NACE MR0175

Official approvals

- CERTIFICATE FIRE SAFE
- TA-LUFT VDI 2440
- ISO 15848-1
- API 6D.
- ATEX 2014/34/EU
- PED 2014/68/EU
- SIL 3 CAPABLE



PEKOS GROUP CERTIFICATES:

ISO 9001: 2015 / 2014/68/EU /API-6D



DIMENSIONS & Technical information

DN	CL	D	L	E	A	B	C	F	H	G	V	X	Y	Z	n x d	ISO 5211	Torque	MAST	Weight
6"	300	150	403	320	216	270	38	182	740	285	36	27	35	44	12 x 22	F14-1	693	2356	117
8"	300	201	502	380	270	330	43	245	750	354	48	36	40	63	12 x 25	F16-1	1085	5585	197
10"	300	252	568	445	324	387	49	285	-	-	48	36	40	63	16 x 29	F16-1	1414	5585	313
12"	300	303	648	520	381	451	52	329	-	-	48	36	40	63	16 x 32	F16-1	1715	5585	400

** Depending on service conditions.

* Dimensions are in mm. * Torque & MAST are in Nm * Weight is in Kilograms

* Torque values have been measured ΔP at maximum rating at room temperature



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