

LGU type ball valve



Management System
ISO 9001:2015
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LICENCED UNDER
API SPEC 6D-0743



Dimension range	DN 6 - 50 / NPS 1/4" - 2"
Pressure range	PN 16 - 700 / Class 150 – 2500 / 0 – 10000 psi
Temperature range	- 60°C - +260°C

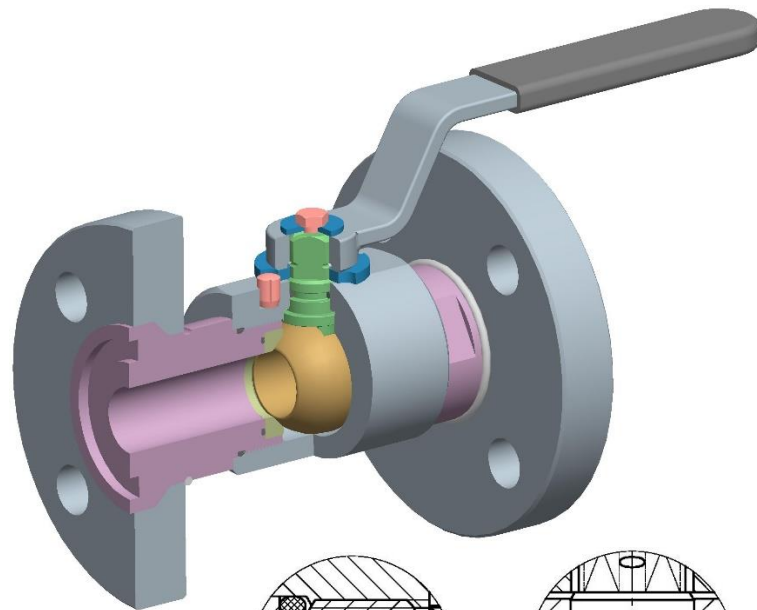
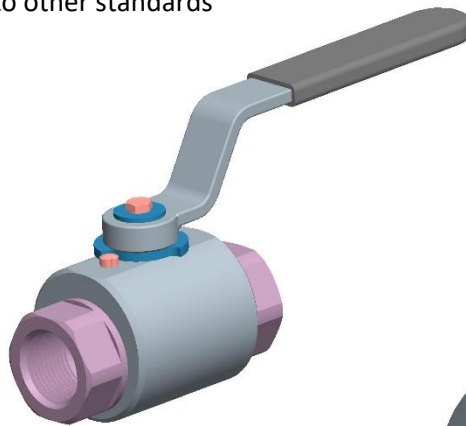
This floating ball valve can be applied in wide pressure range. The body is made of galvanized carbon steel or corrosion-resistant steel. The pre-tensioned sealing rings result in high safety closure even at low and high pressures. The ball is coated with high hardness nickel coating. The unique design of the ball valve ensures that it can be manufactured with various type of threaded, flanged or butt welded ends and can be supplied with actuator as well.

Materials:

- ✓ ASTM A350 LF2,
- ✓ ASTM A479 316(L), or equivalent materials according to other standards

Main features:

- ✓ Floating ball design
- ✓ Modular structure
- ✓ Flanged, threaded, or butt welded ends
- ✓ The ball valve can be fixed in open and closed position with the stop plate
- ✓ Double stem seal

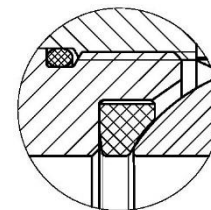


Design possibilities:

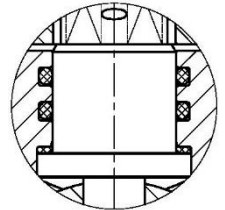
- ✓ Loose flanged construction
- ✓ Metal-to-metal closing design with tungsten-carbide coating
- ✓ Antistatic design
- ✓ Fire safe design according ISO 10497 standard
- ✓ Lockable design
- ✓ Electric motor operation
- ✓ Pneumatic / hydraulic operation

Design standards:

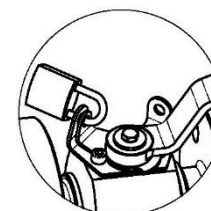
- ✓ Face to face length: ASME B16.10; EN 558
- ✓ Butt welded type: ASME B16.25; EN 12627
- ✓ Threaded design: ASME B1.20.1 NPT
- ✓ Flanged design: ASME B16.5; EN 1092-1; GOST 12815; GOST 12821
- ✓ Pressure test: API 598; EN 12266-1
- ✓ Leakage rate: ISO 5208:2008 class „A“ for soft seated, class „D“ for metal seated
- ✓ NACE design: NACE MR0175 / ISO 15156



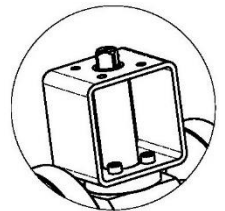
Ball seal



Double stem seal



Lockable design



Actuator design

Development and manufacturing of industrial valves

List of the main components

LGU type ball valve



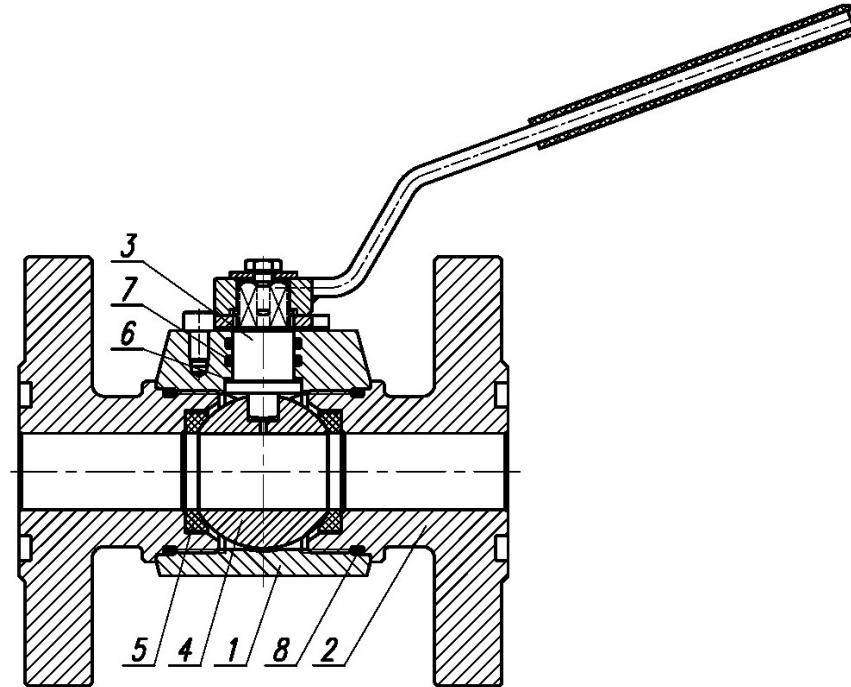
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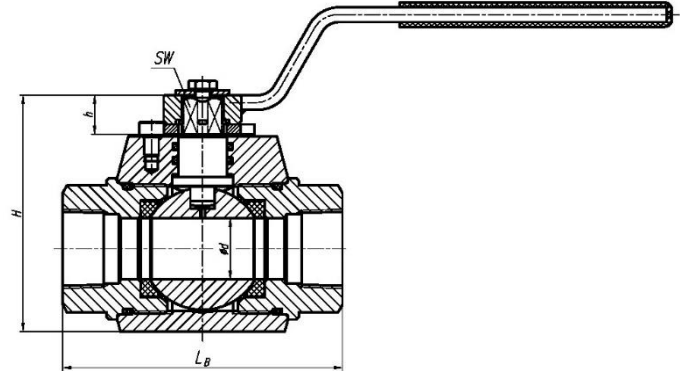
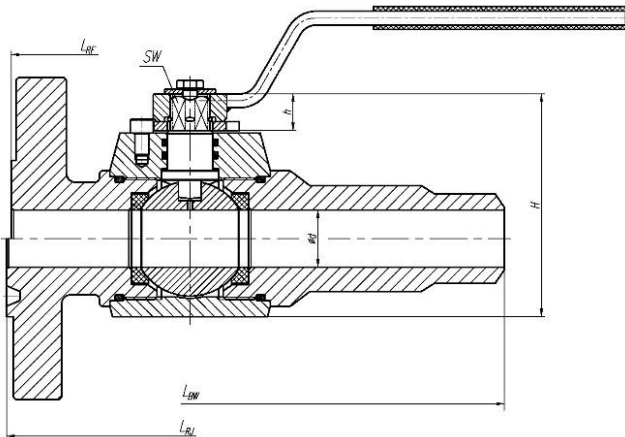
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Nº	Description	Standard design		Metal to metal design	NACE design	Corrosion-resistant design
		T= -29°C ~ +150°C	T= -46°C ~ +120°C	T= -29°C ~ +200°C	T= -46°C ~ +120°C	T= -60°C ~ +260°C
1	Body	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A479 316(L)
2a	Threaded connection	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A479 316(L)
2b	Flange	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 (1)	ASTM A479 316(L)
3	Stem	ASTM A276 410 EN 10083/1 42CrMo4+ENP	ASTM A276 410 EN 10083/1 42CrMo4+ENP	ASTM A276 410 EN 10083/1 42CrMo4+ENP	ASTM A182 F51 (+ENP)	ASTM A182 F51 +ENP
4	Ball	ASTM A351 CF8M +ENP	ASTM A351 CF8M +ENP	ASTM A276 410+WC	ASTM A351 CF8M +ENP	ASTM A351 CF8M +ENP
5	Seat ring	PEEK	DEVLON-V PEEK	ASTM A276 410+WC	DEVLON-V PEEK	PEEK
6	Axial bearing	PTFE PEEK	PTFE DEVLON-V PEEK	PEEK	PTFE DEVLON-V PEEK	PTFE PEEK
7; 8	"O"-ring	VITON	VITON GLT	FFKM	VITON GLT	VITON FVMQ

(1) Galvanized
 ENP = Elektroless nickel plating
 WC = Tungsten carbide coating
 For other mediums, orders on material quality is based on temperature
 The material quality of the "O" rings may vary depending on the medium.

Chart of dimensions ANSI LGU type ball valve



Class 150

NPS	d (mm)	LRF* (mm)	LRJ* (mm)	LBW (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)	
								RF/RJ	BW
3/8"	9	----	----	270	68	10	12	----	1,9
1/2"	13	140	----	270	68	10	12	3,2	1,9
3/4"	19	152	----	270	79	12	12	4,5	2,8
1"	25	165	178	270	97	14	15	7	5,2
1 1/4"	32	178	191	270	110	17	18	9,4	7,1
1 1/2"	38	190	203	270	131	17	25	12,5	9,8
2"	49	216	232	270	144	17	25	15,5	12,5

* Class 300 face to face lengths !

Class 300

NPS	d (mm)	LRF (mm)	LRJ (mm)	LBW (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)	
								RF/RJ	BW
3/8"	9	----	----	270	68	10	12	----	1,9
1/2"	13	140	151	270	68	10	12	3,4	1,9
3/4"	19	152	165	270	79	12	12	5,1	2,8
1"	25	165	178	270	97	14	15	8	5,2
1 1/4"	32	178	191	270	110	17	18	10,9	7,1
1 1/2"	38	190	203	270	131	17	25	14,6	9,8
2"	49	216	232	270	144	17	25	18	12,5

Class 600

NPS	d (mm)	LRF (mm)	LRJ (mm)	LBW (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)	
								RF/RJ	BW
3/8"	9	----	----	270	68	10	12	----	1,9
1/2"	13	165	163	270	68	10	12	3,4	1,9
3/4"	19	190	190	270	79	12	12	5,4	2,8
1"	25	216	216	270	97	14	15	8,3	5,2
1 1/4"	32	229	229	270	110	17	18	11,7	7,1
1 1/2"	38	241	241	270	131	17	25	15,8	9,8

Class 900; Class 1500

NPS	d (mm)	LRF (mm)	LRJ (mm)	LBW (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)	
								RF/RJ	BW
3/8"	9	----	----	270	68	10	12	----	1,9
1/2"	13	216	216	270	68	10	12	4,7	1,9
3/4"	19	229	229	270	79	12	12	7,3	2,8
1"	25	254	254	270	97	14	15	11,6	5,2
1 1/4"	32	279	279	270	110	17	18	14	7,1

Class 800; Class 1500

NPS	d (mm)	LB (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)
3/8"	9	85	68	10	12	1,3
1/2"	13	85	68	10	12	1,3
3/4"	19	100	79	12	12	1,9
1"	25	115	97	14	15	3,5
1 1/4"	32	130	110	17	18	4,8

6000 psi; 100000 psi

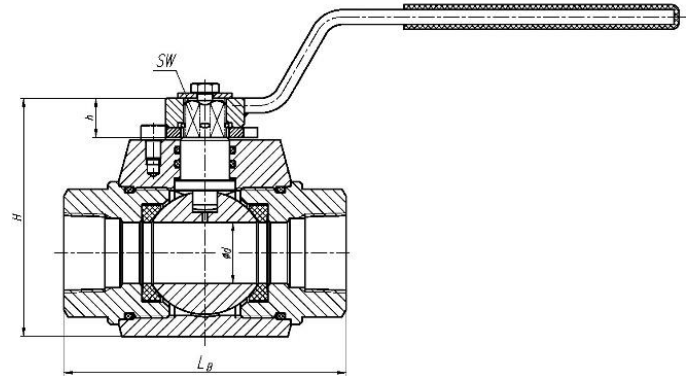
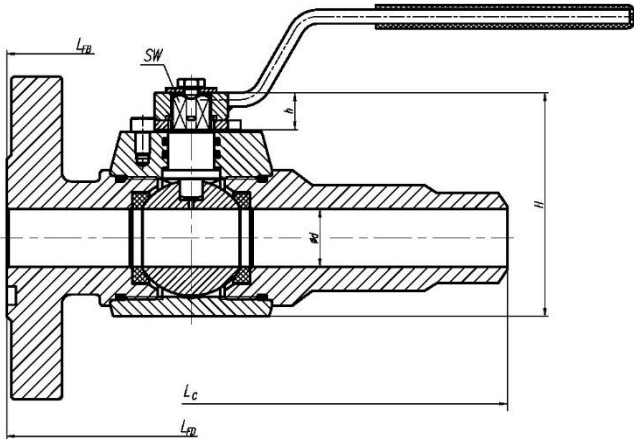
NPS	d (mm)	LB (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)
3/8"	9	105	74	11	12	1,9
1/2"	13	105	74	11	12	1,9

Chart of dimensions EN

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PN 16; PN 25; PN 40

DN	d (mm)	L _{FB} ;L _{FD} (mm)	L _C (mm)	L _B (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)		
								FB/FD	C	B
10	9	130	270	85	68	10	12	2,6	1,9	1,3
15	13	130	270	85	68	10	12	2,7	1,9	1,3
20	19	150	270	100	79	12	12	3,9	2,8	1,9
25	25	160	270	115	97	14	15	5,9	5,2	3,5
32	32	180	270	130	110	17	18	8,4	7,1	4,8
40	38	200	270	140	131	17	25	11,7	9,8	7,3
50	49	230	270	150	144	17	25	14,7	12,5	9,2

PN 63; PN 100

DN	d (mm)	L _{FB} ;L _{FD} (mm)	L _C (mm)	L _B (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)		
								FB/FD	C	B
10	9	130	270	85	68	10	12	3,3	1,9	1,3
15	13	130	270	85	68	10	12	3,7	1,9	1,3
20	19	150(1)	270	100	79	12	12	5,6	2,8	1,9
25	25	160	270	115	97	14	15	8,3	5,2	3,5
32	32	180(1)	270	130	110	17	18	10,6	7,1	4,8
40	38	200	270	140	131	17	25	15	9,8	7,3
50*	49	230	270	150	144	17	25	18,4	12,5	9,2

* Only up to PN 63 !

PN 160

DN	d (mm)	L _{FB} ;L _{FD} (mm)	L _C (mm)	L _B (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)		
								FB/FD	C	B
10	9	130	270	85	68	10	12	3,4	1,9	1,3
15	13	130	270	85	68	10	12	3,6	1,9	1,3
20	19	---	270	100	79	12	12	---	2,8	1,9
25	25	160	270	115	97	14	15	8,5	5,2	3,5
32	32	---	270	130	110	17	18	---	7,1	4,8

PN 250

DN	d (mm)	L _{FB} ;L _{FD} (mm)	L _C (mm)	L _B (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)		
								FB/FD	C	B
10	9	130	270	85	68	10	12	5,6	1,9	1,3
15	13	130	270	85	68	10	12	6	1,9	1,3
20	19	---	270	100	79	12	12	---	2,8	1,9
25	25	160	270	115	97	14	15	10,3	5,2	3,5
32	32	---	270	130	110	17	18	---	7,1	4,8

PN 320; PN 400; PN 700

DN	d (mm)	L _B (mm)	H (mm)	SW (mm)	h (mm)	Weight ~ (kg)
10	9	105	74	11	12	1,9
15	13	105	74	11	12	1,9