

# LGU type ball valve

Dimension range	DN 15 - 50 / NPS 1/2" - 2"
Pressure range	PN 16 - 250 / Class 150 - 1500
Temperature range	- 60°C - +150°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:

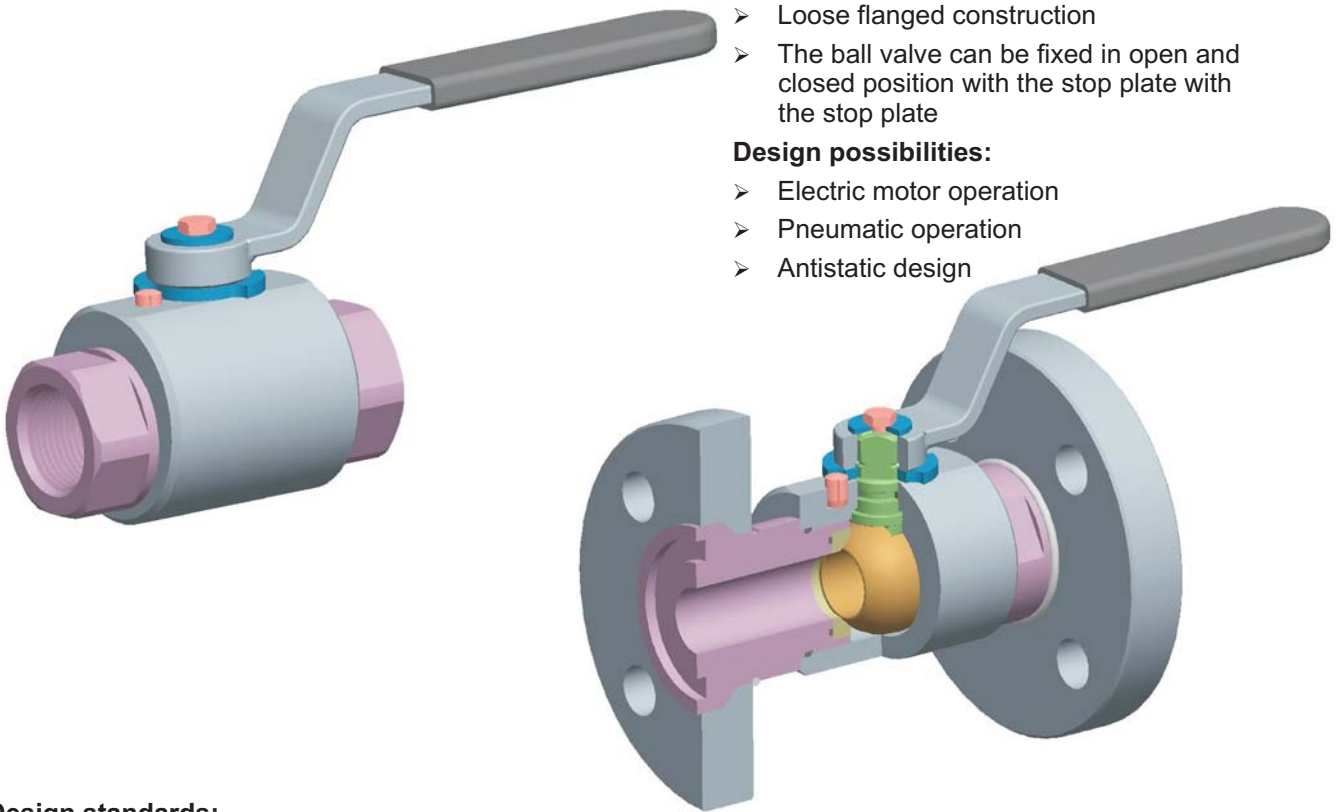
- ASTM A105; ASTM A216 WCB
- ASTM A350 LF2; ASTM A352 LCC
- ASTM A479 316(L); ASTM A351 CF8M

### Main features:

- Floating ball design
- Modular structure
- Flanged, threaded, or butt welded ends
- Loose flanged construction
- The ball valve can be fixed in open and closed position with the stop plate with the stop plate

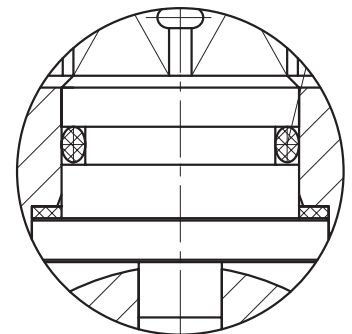
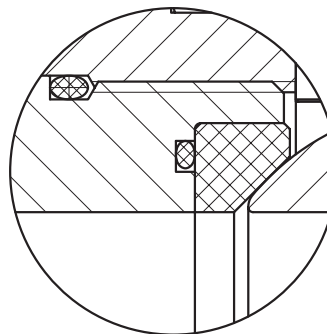
### Design possibilities:

- Electric motor operation
- Pneumatic operation
- Antistatic design



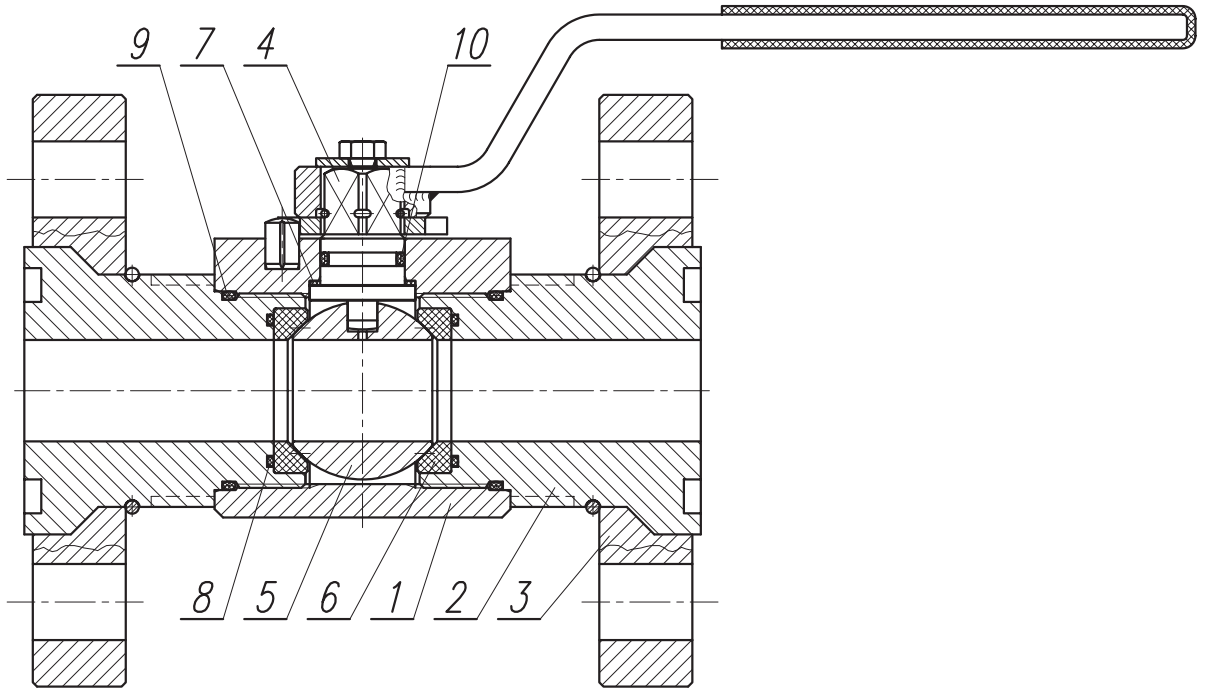
### Design standards:

- Face to face length: ASME B16.10; EN 558
- Butt welded type: ASME B16.25; EN 12627
- Threaded type: ASME B1.20.1 NPT
- Flanged type: ASME B16.5; EN 1092-1; GOST 12815; GOST 12821
- Pressure test: API 598; EN 12266-1
- NACE design: NACE MR0175 / ISO 15156



## List of the main components

### LGU type ball valve

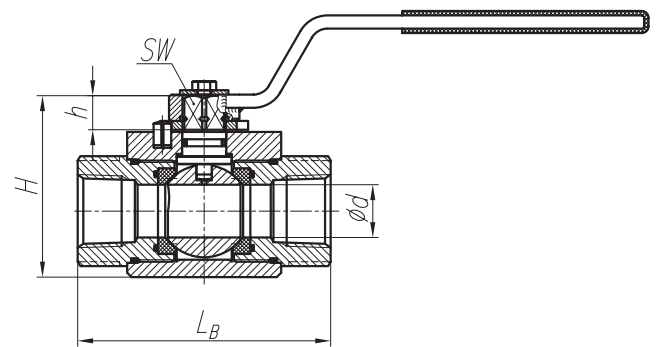
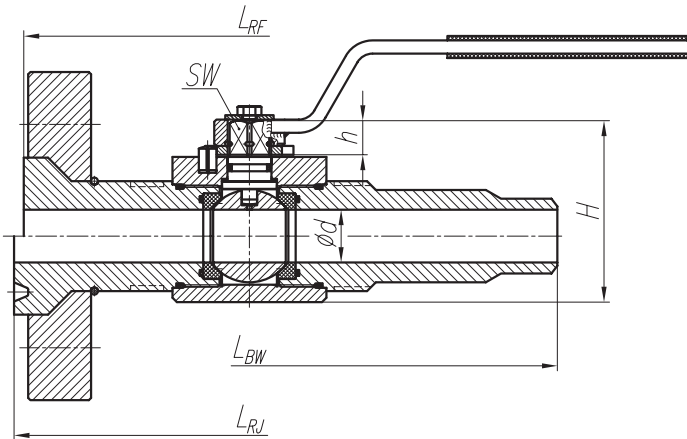


N°	Description	Standard design		NACE design	Corrosion-resistant design
		T= -29°C ~ +150°C	T= -46°C ~ +150°C	T= -46°C ~ +120°C	T= -60°C ~ +150°C
1	Body	ASTM A105 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 ASTM A479 316(L)	ASTM A479 316(L)
2	Threaded connection	ASTM A105 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 ASTM A479 316(L)	ASTM A479 316(L)
3	Flange	ASTM A105 (1)	ASTM A350 LF2 (1)	ASTM A350 LF2 ASTM A479 316(L)	ASTM A479 316(L)
4	Driving stem	ASTM A276 410	ASTM A276 410	ASTM A564 630 ASTM A276 316(L)	ASTM A276 316(L)
5	Ball	ASTM A105+ENP ASTM A276 316(L)	ASTM A350 LF2+ENP ASTM A276 316(L)	ASTM A350 LF2+ENP ASTM A276 316(L)(+ENP)	ASTM A276 316(L) +ENP
6	Gasket ring	PTFE DEVLON-V	PTFE DEVLON-V	PTFE DEVLON-V	PTFE DEVLON-V
7	Axial bearing	PTFE / PCTFE	PTFE / PCTFE	PTFE / PCTFE	PTFE / PCTFE
8; 9; 10	"O"-ring	VITON	VITON GLT	VITON GLT	VITON FVMQ

- (1) = Galvanized
- ENP = Elektroless Nickel Plating
- For other mediums, orders on material quality is based on temperature

# Chart of dimensions

LGU type ball valve  
ANSI



LGU

## CLASS 150

NPS	d (mm)	L <sub>RF</sub> * (mm)	L <sub>RJ</sub> * (mm)	L <sub>BW</sub> (mm)	H (mm)	SW (mm)	h (mm)
3/8"	10	---	---	270	52	9	10
1/2"	13	140	---	270	61	10	12
3/4"	20	152	---	270	74	12	13,5
1"	24	165	178	270	82,5	14	15,5
1 1/4"	32	178	191	270	105	17	18,5
1 1/2"	40	190	203	270	118	17	18,5
2"	50	216	232	300	134	19	21

\* CLASS 300 face to face length

## CLASS 300

NPS	d (mm)	L <sub>RF</sub> (mm)	L <sub>RJ</sub> (mm)	L <sub>BW</sub> (mm)	H (mm)	SW (mm)	h (mm)
3/8"	10	---	---	270	52	9	10
1/2"	13	140	151	270	61	10	12
3/4"	20	152	165	270	74	12	13,5
1"	24	165	178	270	82,5	14	15,5
1 1/4"	32	178	191	270	105	17	18,5
1 1/2"	40	190	203	270	118	17	18,5
2"	50	216	232	300	134	19	21

## CLASS 600

NPS	d (mm)	L <sub>RF</sub> (mm)	L <sub>RJ</sub> (mm)	L <sub>BW</sub> (mm)	H (mm)	SW (mm)	h (mm)
3/8"	10	---	---	270	52	9	10
1/2"	13	165	163	270	61	10	12
3/4"	20	190	190	270	74	12	13,5
1"	24	216	216	270	82,5	14	15,5
1 1/4"	32	229	229	270	105	17	18,5
1 1/2"	40	241	241	270	118	17	18,5
2"	50	292	295	300	134	19	21

## CLASS 900; CLASS 1500

NPS	d (mm)	L <sub>RF</sub> (mm)	L <sub>RJ</sub> (mm)	L <sub>BW</sub> (mm)	H (mm)	SW (mm)	h (mm)
3/8"	10	---	---	270	52	9	10
1/2"	13	216	216	270	61	10	12
3/4"	20	229	229	270	74	12	13,5
1"	24	254	254	270	82,5	14	15,5
1 1/4"	32	279	279	270	105	17	18,5
1 1/2"	40	305	305	270	118	17	18,5
2" <sup>(1)</sup>	50	368	371	300	134	19	21

<sup>(1)</sup>only Class 900

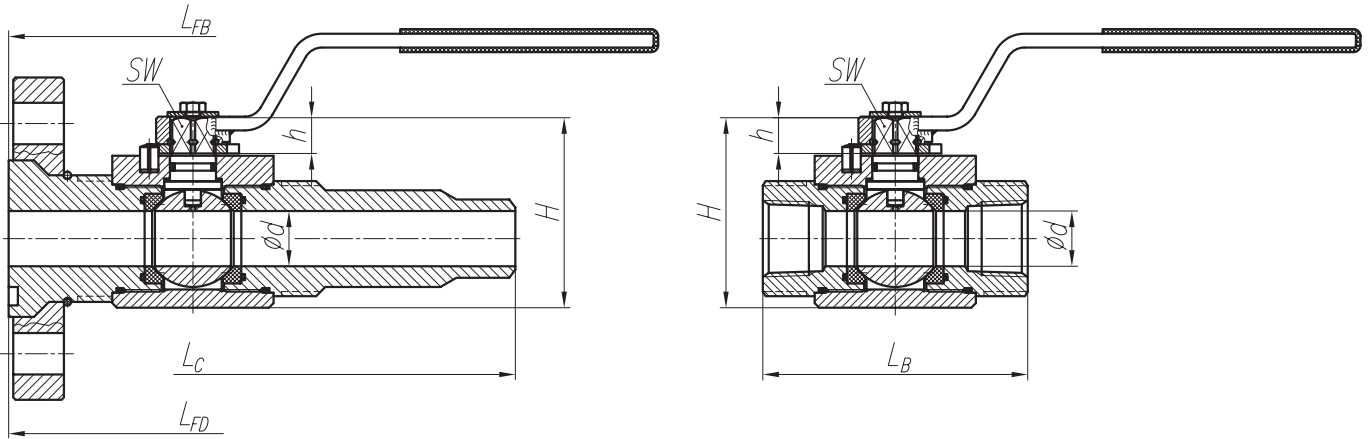
## CLASS 800; CLASS 1500

NPS	d (mm)	L <sub>B</sub> (mm)	H (mm)	SW (mm)	h (mm)
3/8"	10	70	52	9	10
1/2"	13	85	61	10	12
3/4"	20	100	74	12	13,5
1"	24	115	82,5	14	15,5
1 1/4"	32	130	105	17	18,5
1 1/2"	40	150	118	17	18,5
2" <sup>(2)</sup>	50	180	134	19	21

<sup>(2)</sup>only Class 800

# Chart of dimensions

LGU type ball valve  
EN



PN 16 - 250

DN	d (mm)	L <sub>FB</sub> : L <sub>FD</sub> (mm)	L <sub>C</sub> (mm)	L <sub>B</sub> (mm)	H (mm)	SW (mm)	h (mm)
10	10	130	270	70	52	9	10
15	13	130	270	85	61	10	12
20	20	150 <sup>(1)</sup>	270	100	74	12	13,5
25	24	160	270	115	82,5	14	15,5
32	32	180 <sup>(1)</sup>	270	130	105	17	18,5
40	40	200	270	150	118	17	18,5
50 <sup>(2)</sup>	50	230	300	180	134	19	21

<sup>(1)</sup> Flanged design only up to PN 100

<sup>(2)</sup> only up to PN 160

LGU