



CATALOGUE

ENERGY VALVES AND ACCESSORIES



CATALOGUE-ENERGY VALVES AND ACCESSORIES - C

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TEHNICAL FEATURES

1 APPLICATION

Power transformer industry, petrochemical and oil industry, refineries, gas industry, thermal power and heating plants industry, pharmaceutical industry, process industry, shipyards, off-shore projects, water supply system etc.

2 TESTING

- each valve is tested according to EN 12266-1
 - Hydrostatic: body - 1,5 x PN and seat 1,1 x PN cca. 60 sec
 - Pneumatic: seat - 6 bar cca. 60 sec

- additional testing for transformer valves on working pressure:

Hydrostatic: seat - bar cca. 60 sec

- type approval testing (see point 4.)

- also, we provide testing acc. to customer's request:

Tightness test of a closure - AIR, testing time 24 h

High pressure testing

Low pressure testing

3 CERTIFICATES

- **Company certificates:** ISO 9001:2008 by (BVQI) Bureau Veritas Quality International since 1995.
- **Fire-safe certificate:** TÜV SÜD Industrie Services
- **Certificate PED 97/23/EC:** TÜV SÜD Industrie Services
- **Type approvals by:** (BVQI) Bureau Veritas Quality International, (CRS) Croatian Register of Shipping, EAC Certificate-GOST
- **Certificates for products:** (LRS) Lloyds's Register of Shipping, (DNV) Det Norske Veritas, (GL) Germanischer Lloyd, (BVQI) Bureau Veritas Quality International, (ABS) American Bureau of Shipping, (RMRS) Russian Maritime Register of Shipping, (RINA) Registro Italiano Navale, (CRS) Croatian Register of Shipping

4 TYPE APPROVAL TESTING

New products or changes of standard products we are testing in a few steps:

- different pressure value
- instalation (horizontal or vertical) with hot oil or water during testing period

All processes are strictly regulated, reported and followed by testing documentation

5 WARRANTY

OMV-INDOIL guarantees that complete range of valves are manufactured in accordance with the highest quality standards.

The warranty is 12 months from installation and 18 months from delivery.

Stainless steel valves have warranty of 36 months

6 PAINTING

According to customers requirements:

- painted in primer coating
- painted in primer + top coating
- We use the best painting technologies and our experience from trafo and process industry

ADVANTAGES OF OMV-INDOIL ENERGY VALVES

MAIN ADVANTAGES:

Wide range type of valves:

- Globe valves
- Gate valves
- Ball valves
- Check valves
- Butterfly valves
- Plug valves
- Off-shore valves
- Special design of valves on request

All kind of material: standard material: cast iron, nodular iron, cast steel, carbon steel, stainless steel, bronze, brass
special material: Duplex, high resistance- anti-corrosive off-shore material,
special alloys- Al bronze and similar

DESIGN ADVANTAGES :

Face to Face dimension: as per EN 558-1 (DIN 3202), ASME B16.10, special customers request

Sealing system: soft sealing, metal to metal sealing, installation of gasket acc. to request

Connection: Flange connection: EN 1092, ASME B16.5, BS, GOST
with flange surface: raised face - type B, flat face - type A , groove face type D
or as per customer requests (special roughness)

Threaded connection (male/female): NPT, BSPT, BSPP (ISO 228)

Welded connection: SW, BW

Outlet connection with plug, with cap, with sampling pipe

Unified open and close indicato and locking system

No leakage system

No noise solution- special coating for noise protection while transformer is working

Operating:
- standard with handwheel and handlever, gear operated
- with top flange acc. to ISO 5211 for actuator assembly
- with pneumatic actuator
- with electric actuator

ADVANTAGES OF STAINLESS STEEL TRANSFORMER VALVES COMPARING WITH BRONZE TRANSFORMER VALVES

1. SAME INSTALLATION PARAMETERS AS BRONZE GATE VALVES

- same Face to Face dimension according to DIN EN 12288

2. BETTER MECHANICAL PROPERTIES OF STAINLESS STEEL MATERIAL

- mechanical properties are better, such as:

Properties	Units	Stainless steel material	Bronze
TENSILE STRENGHT	(Mpa)	485	200
YIELD STRENGHT Rp _{0,2}	(Mpa)	205	90
ELONGATION	%	30	13
HARDNESS	HB	156-170	60

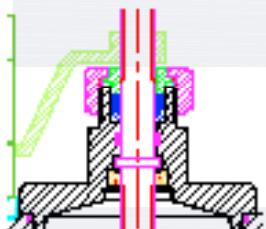
- solved problem of body porosity
- solved problem of brittleness and body cracks(which occur when valves are installed between flanges)

3. INCREASE OF TEMPERATURE LIMIT VALUES, LOW TEMPERATURE VALVES

- use temperarure range is from -50 °C up to 200 °C with standard sealing materials

stainless steel is suitable for temperatures from -190 °C up to 460 °C

4. NO LEAKAGE SYSTEM - SAFER SEALING AND STEM POSITIONING SOLUTIONS



- with double PTFE stem packing
- with O-ring

Retaining ring does not allow insert unscrewing and stem to go down due to unscrewing

5. INSURANCE AGAINST THE BONNET LOOSENING, UNIFIED OPEN AND CLOSE INDICATOR AND LOCKING SYSTEM



Insurance Against
The Bonnet Loosening



Locking System



No Noise Solution

6. IDLE MOTION OF HANDWHEEL

- during opening of the valve the idle motion of handwheel is minimum 1/4 of turn
- during opening of the valve, wedge is not moving from closed position until idle motion of handwheel is not completed

7. SOLVED NOISE PROBLEM

- with PVC coating is prevented occur of the noise while trafo is working

OMV-INDOIL GATE VALVES ADVANTAGES

Material comparation - body/bonet, seats material, stem sealing (acc. to Table 1.)

- Painting:**
- standard painting - inside and outside painting basic procedure
 - special painting according to customer request
 - off shore painting procedure (C5M)

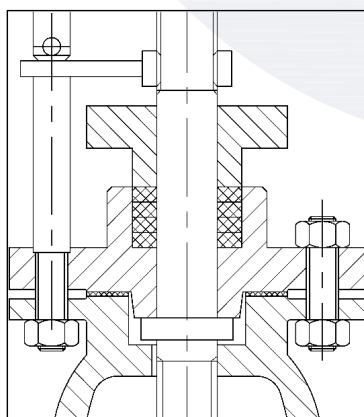
Nodular cast iron normalized (GGG 40.3) - the best solution between price and quality and technical characteristics (mechanical properties and minus temperature)

Table 1.

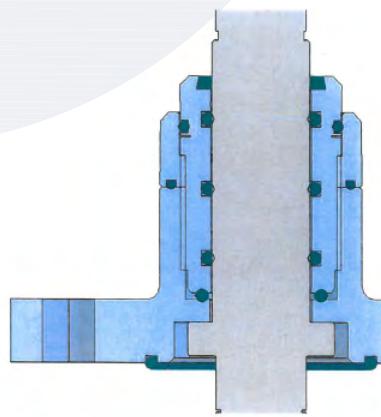
	GG 25 EN-GJL-250	GGG 40 EN-GJL-400-15	GGG 40,3 EN-GJL-400-18-LT	GSC 25 (1.0619) EN-GP-240-GH	STAINLESS STEEL
DESIGN STANDARD	DIN 3352-2 EN 1171	DIN 3352-2 EN 1171	DIN 3352-2 EN 1171	DIN 3352-5 EN 12516	DIN 3352-10 EN 12516
DN (mm)	DN 15-DN 600	DN 15-DN 1600	DN 15-DN 1600	DN 15-DN 1600	DN 15-DN 1000
PN (bar)	6-10	6-10-16-40	6-10-16-40	6-10-16-40	6-10-16-40
TEMP. RANG (°C)	-10°C...+300°C	-10°C...+300°C	-40°C...+300°C	-50°C...450°C	-196°C...+550°C
SEAT	BRASS/BRONZE	SS/SS	SS/SS	SS/SS	SS/SS
TENSILE STRENGHT Rm (min) (N/mm ²)	250	400	400	420	450
YIELD STRENGHT Rp0,2 (min) (N/mm ²)		250	240	240	205
ELONGATION (%)		15	18	22	30
HARDNESS (HB)	145-215	130-180	130-180	150-180	156-170
STEAM SEALING	NBR/VITON/FVMQ	NBR/VITON/FVMQ	NBR/VITON/FVMQ	NBR/VITON/FVMQ	PTFE

Stem sealing for gate valves made in GGG 40, GGG 40.3 and GSC comparation

PTFE sealing system



O-ring sealing system

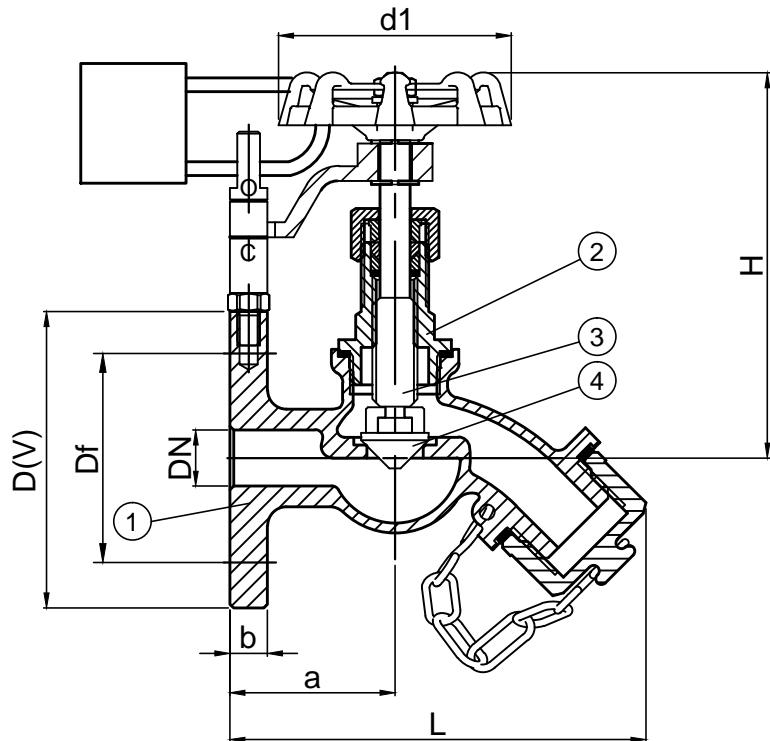




GLOBE VALVES

BRONZE GLOBE OUTLET VALVE, DIN 42568

WITH POSITION INDICATOR AND LOCKING DEVICE

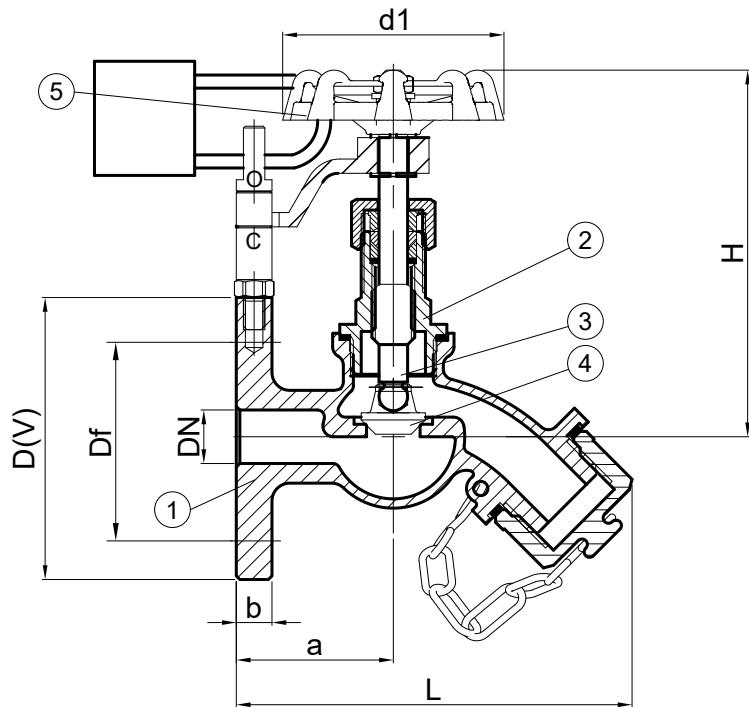


No.	Part	Material
1	Body	Bronze RG5
2	Bonnet	CW603N
3	Stem	CW603N
4	Disc	CW603N
5	Handle Wheel	Ductile iron / Aluminum cast.

Nominal Size	DN mm	15	32
Face to face	L	110	129
Height	H	115	130
Round Flange Ø	D	80	-
Flange bolt diameter	Df	55	90
Square Flange	V	-	90
Handwheel	d ₁	58	70
Length	a	43	55
Width of flange	b	10	13
Weight	ca. kg	1,1	2,3

Inlet DN 15: round flange drilled acc. to DIN 2501 PN 6
 Inlet DN 32: square flange drilled acc. to DIN 2501 PN 6

STAINLESS STEEL GLOBE OUTLET VALVE, DIN 42568
WITH POSITION INDICATOR AND LOCKING DEVICE



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Stem	W.Nr. 1.4301
4	Disc	W.Nr. 1.4301
5	Handle Wheel	Ductile iron, stainless steel or aluminium casting

Nominal Size	DN mm	15	32
Face to face	L	110	129
Height	H	115	135
Round Flange Ø	D	80	-
Flange bolt diameter	Df	55	90
Square Flange	V	-	90
Handwheel	d ₁	62	80
Lenght	a	44	55
Width of flange	b	10	13
Weight	(kg)	1.1	2.3

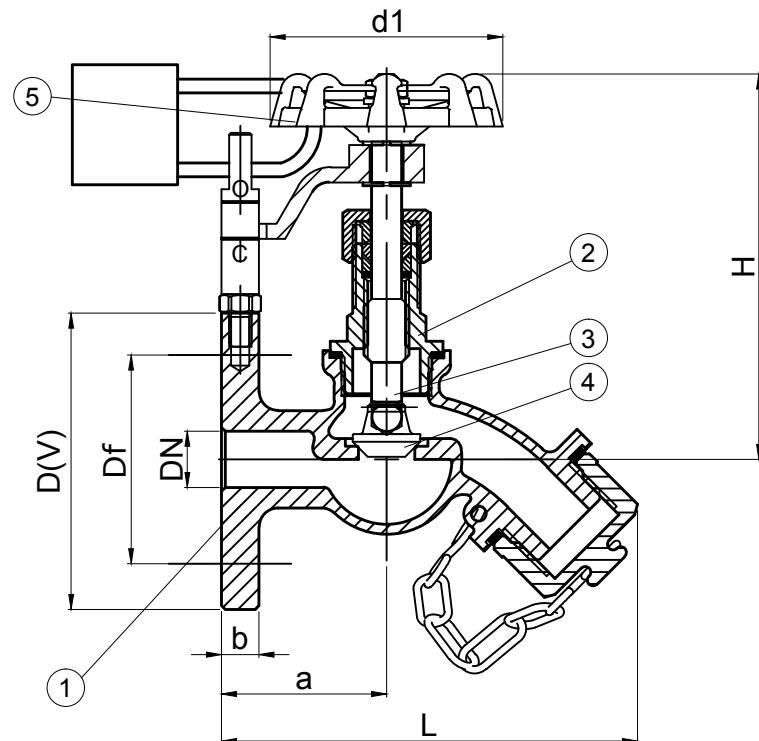
Inlet DN 15: round flange drilled acc. to DIN 2501 PN 6
Inlet DN 32: square flange drilled acc. to DIN 2501 PN 6

Operating temperature: t_{min} = -50°C; t_{max} = +200 °C
Suitable for environment temperature t ≥ -50°C

*DN 32 - see type OMV6SS-A

STAINLESS STEEL GLOBE OUTLET VALVE PN10 DIN 42568

WITH POSITION INDICATOR AND LOCKING DEVICE



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Stem	W.Nr. 1.4301
4	Disc	W.Nr. 1.4301
5	Handle Wheel	Ductile iron, stainless steel or aluminium casting

Nominal Size	DN mm	15
Face to face	L	110
Height	H	115
Round Flange Ø	D	95
Flange bolt diameter	Df	65
Square Flange	V	-
Handwheel	d ₁	62
Length	a	44
Width of flange	b	10
Weight	kg	1.1

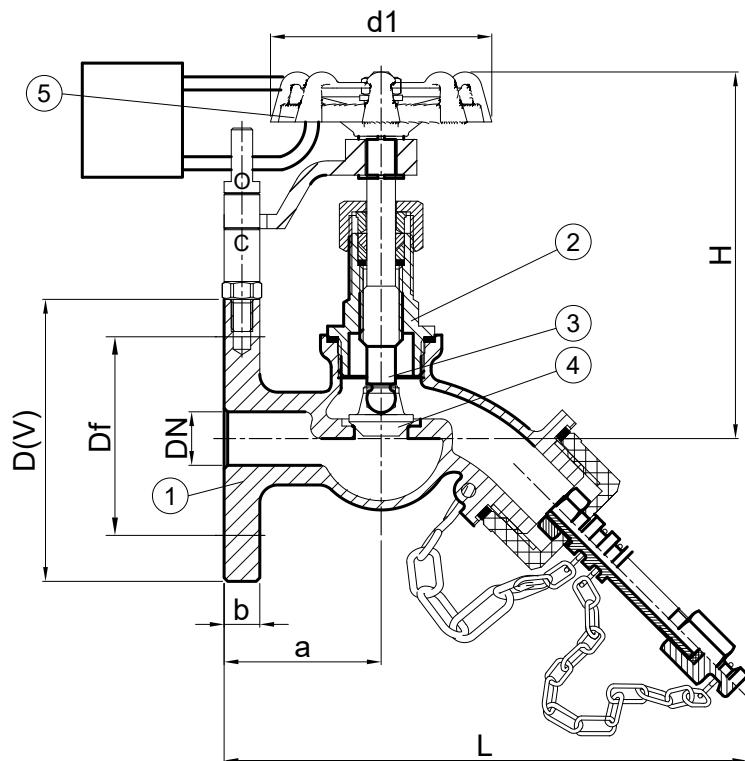
inlet DN 15: round flange drilled acc. to DIN PN 10

Operating temperature: t_{min} = -50°C; t_{max} = +200 °C

Suitable for environment temperature t ≥ -50°C

STAINLESS STEEL GLOBE OUTLET VALVE DIN 42568

WITH POSITION INDICATOR, LOCKING DEVICE AND SAMPLING PIPE



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Stem	W.Nr. 1.4301
4	Disc	W.Nr. 1.4301
5	Handle Wheel	Ductile iron, Stainless steel, Aluminium casting

Nominal Size	DN mm	15	32
Face to face	L	145	170
Height	H	115	135
Round Flange Ø	D	80	-
Flange bolt diameter	Df	55	90
Square Flange	V	-	90
Handwheel	d ₁	62	80
Lenght	a	44	55
Width of flange	b	10	13
Weight	kg	1.0	2.3

inlet DN 15: round flange drilled acc. to DIN PN 6
inlet DN 32: square flange drilled acc. to DIN PN 6

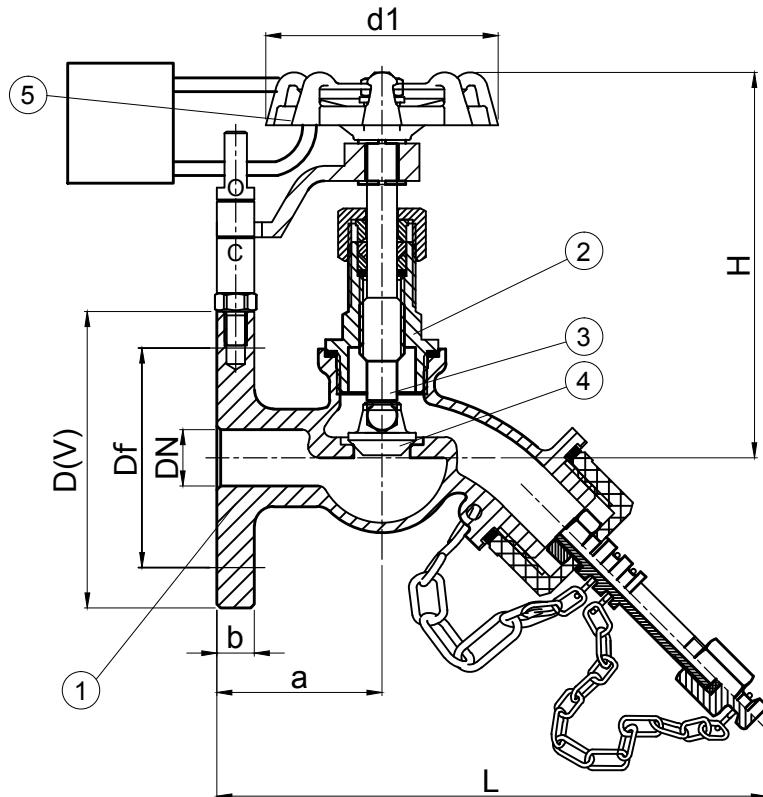
Operating temperature: t_{min} = -50°C; t_{max} = +200 °C

Suitable for environment temperature t ≥ -50°C

* OMV6SS-A-U- (straight)

STAINLESS STEEL GLOBE OUTLET VALVE PN10 DIN 42568

WITH POSITION INDICATOR, LOCKING DEVICE AND SAMPLING PIPE



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Stem	W.Nr. 1.4301
4	Disc	W.Nr. 1.4301
5	Handle Wheel	Ductile iron, Stainless steel, Aluminium casting

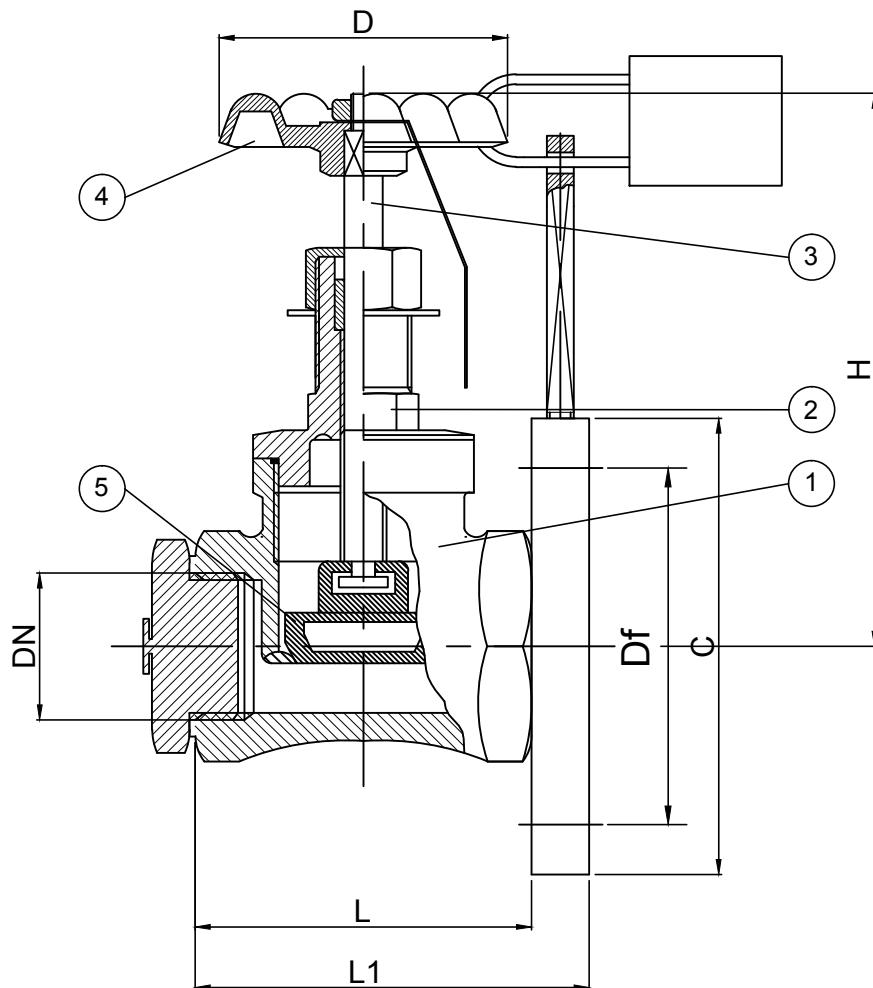
Nominal Size	DN mm	15
Face to face	L	145
Height	H	115
Round Flange Ø	D	95
Flange bolt diameter	Df	65
Square Flange	V	-
Handwheel	d ₁	62
Lenght	a	44
Width of flange	b	10
Weight	kg	1.0

inlet DN 15: round flange drilled acc. to DIN PN 10
inlet DN 32: square flange drilled acc. to DIN PN 10

Operating temperature: t_{min} = -50°C; t_{max} = +200 °C
Suitable for environment temperature t ≥ -50°C

BRONZE GLOBE OUTLET VALVE PN 16

WITH POSITION INDICATOR AND LOCKING DEVICE



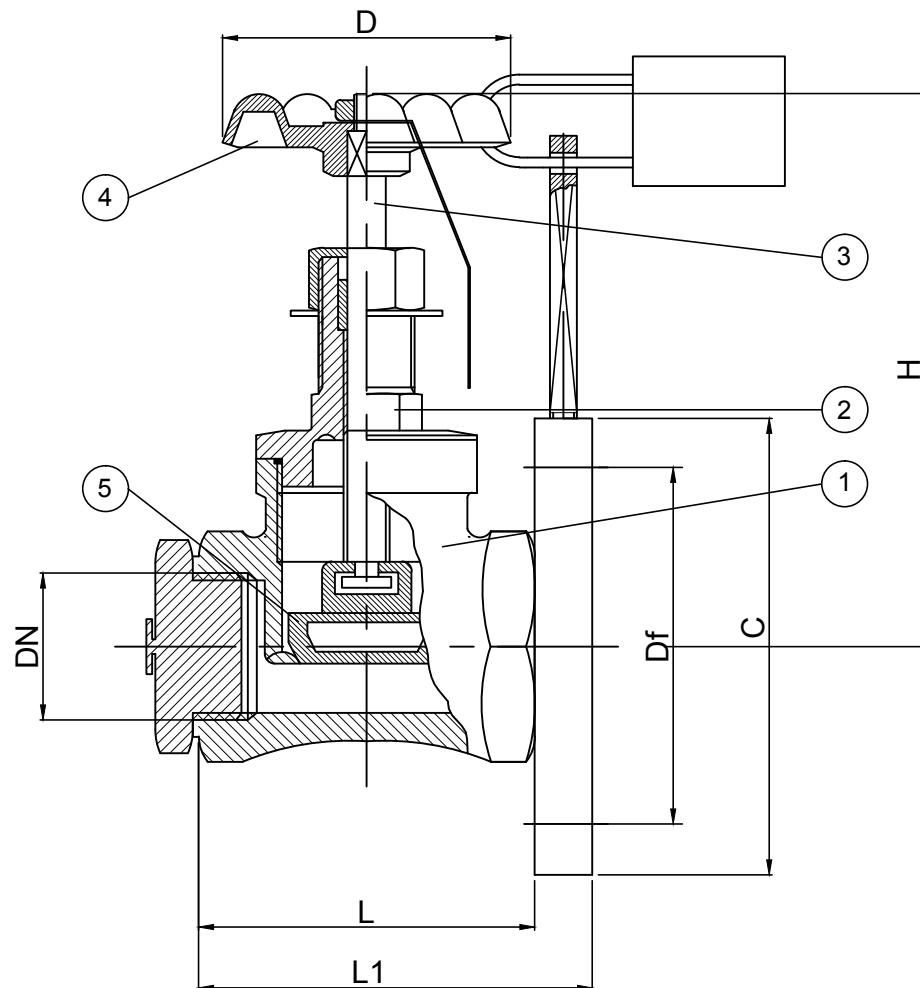
No.	Part	Material
1	Body	Bronze CC491K
2	Bonnet	Brass CW617N
3	Stem	Brass CW614N
4	Handwheel	Aluminium GD12FE
5	Disc	Brass CW614N

	DN	15	20	32
D	mm	60	60	80
Df	mm	65	75	100
L	mm	62	62	90
H	mm	115	115	155
L1	mm	75	75	105
C	mm	95	105	140
Weight	kg	1.4	1.8	3.4

Flange drilled according to DIN PN 16.

STAINLESS STEEL GLOBE OUTLET VALVE PN 16

WITH POSITION INDICATOR AND LOCKING DEVICE



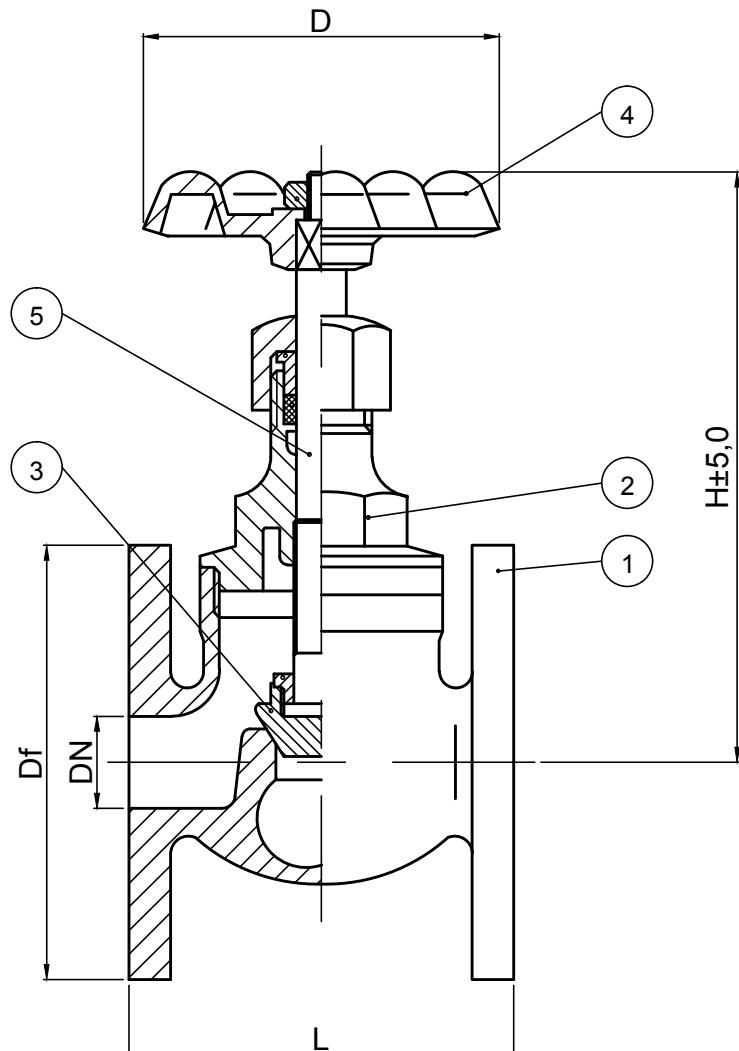
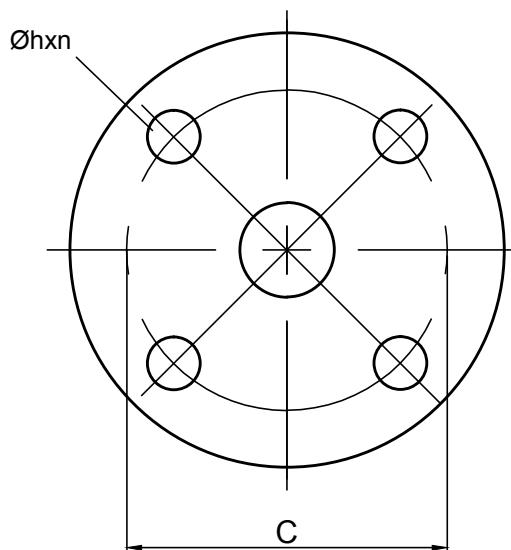
No.	Part	Material
1	Body	W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4408
3	Stem	W.Nr. 1.4401
4	Handwheel	Ductile iron, Stainless steel, Aluminium
5	Disc	W.Nr. 1.4408

	DN	15	32
D	mm	62	75
Df	mm	65	100
L	mm	63	87
H	mm	106	122
L1	mm	74	101
C	mm	95	140
Weight	kg	1.1	2.8

Flange drilled according to DIN PN 16.
 Operating temperature: tmin = -50°C; tmax = +200 °C
 Suitable for environment temperature t≥-50°C

BRONZE GLOBE VALVE PN 16

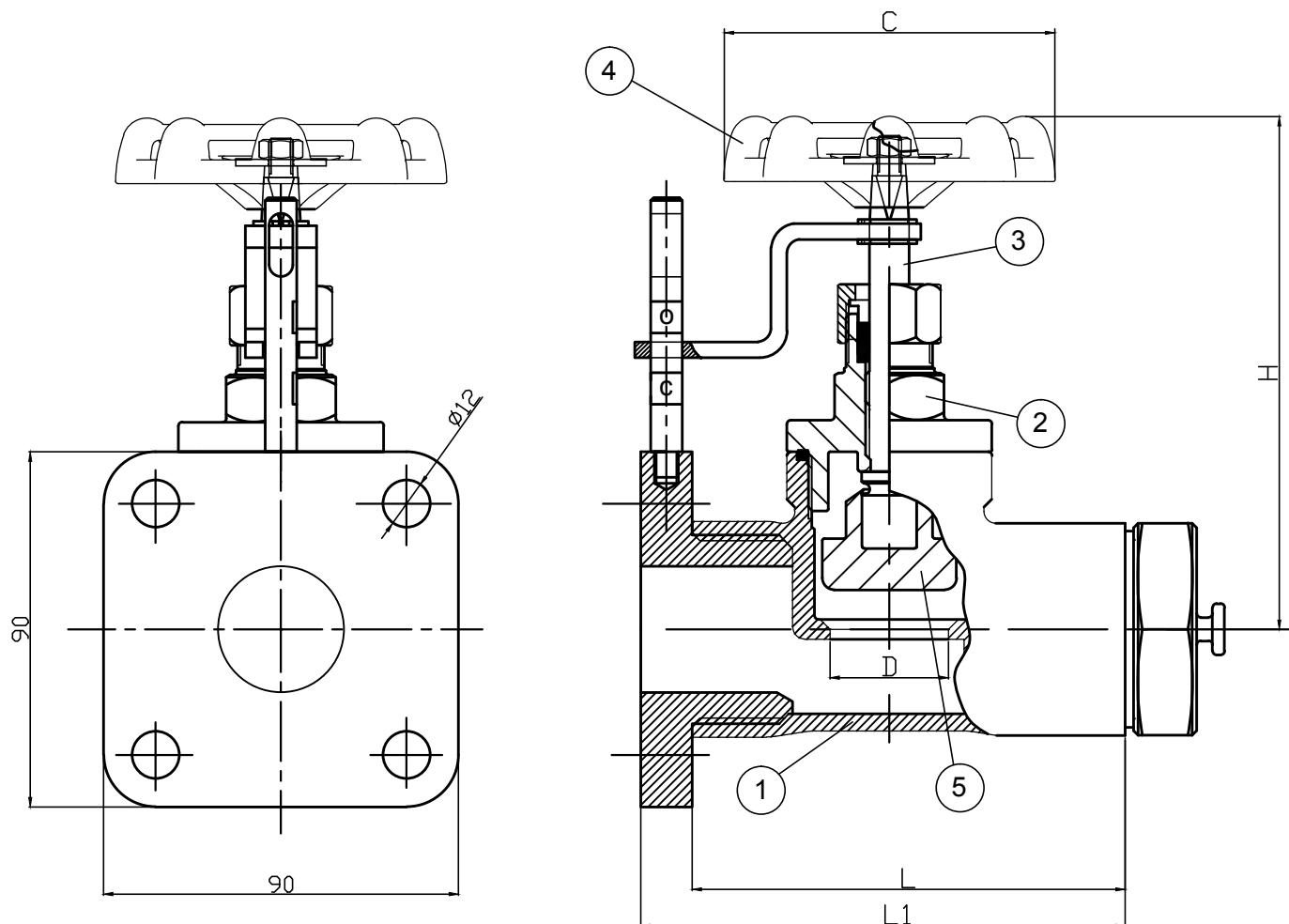
FLANGED ENDS



No.	Part	Material
1	Body	CC491K (Bronze EN1982)
2	Bonnet	CW617N
3	Disc	CW614N
4	Handwheel	Aluminium-GD12FE EN1706
5	Stem	CW614N (Brass EN12164)

MARK	DN		1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
	DN mm	Df mm (PN 16)	15	20	25	32	40	50	65	80	100
C mm	65	75	85	100	110	110	125	145	160	180	
h mm	14	14	14	18	18	18	18	18	18	18	18
n	4	4	4	4	4	4	4	4	4	8	8
D mm	55	60	70	80	80	95	110	130	150		
L mm	80	80	92	102	118	140	160	190	244		
H mm	125	125	130	160	190	215	230	250	300		
Weight kg	1,85	1,9	2,4	2,95	3,6	6,3	8,7	11,8	19,5		

**BRONZE GLOBE OUTLET VALVE, DIN 42568
PN 6 DN 32**



No.	Part	Material
1	Body	Bronze RG5 / RG7
2	Bonnet	Brass CW617N
3	Stem	Brass CW614N
4	Handwheel	Aluminium
5	Disc	Brass CW614N

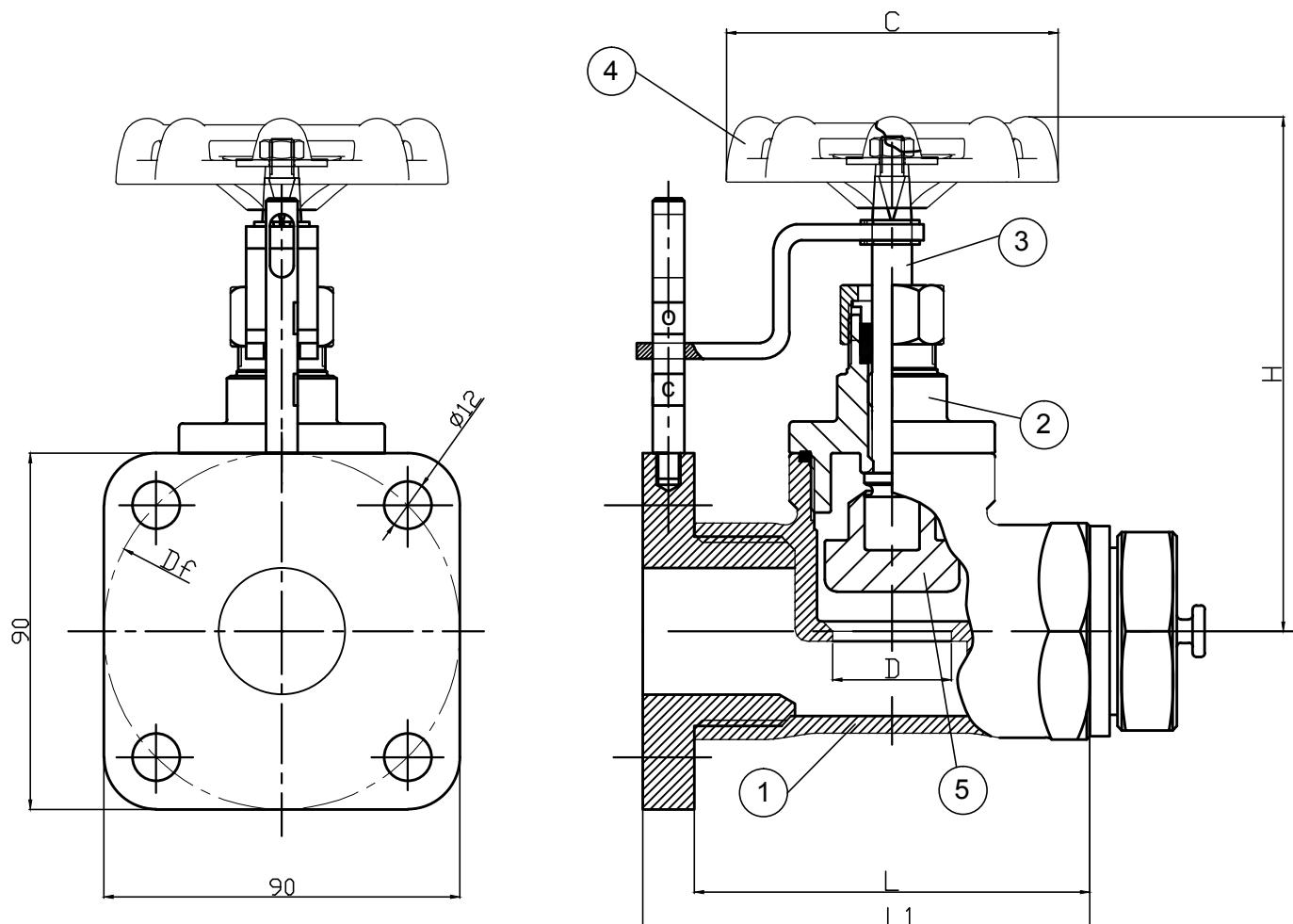
SIZE	C	D	L	L1	H	Weight (Kg)
DN32	80	30	102	115	155	2.5

Flange drilled according to DIN 2501 PN 6.

End plug or cap connected with a chain to the valve body.

STAINLESS STEEL GLOBE OUTLET VALVE DIN 42568

PN6 DN32



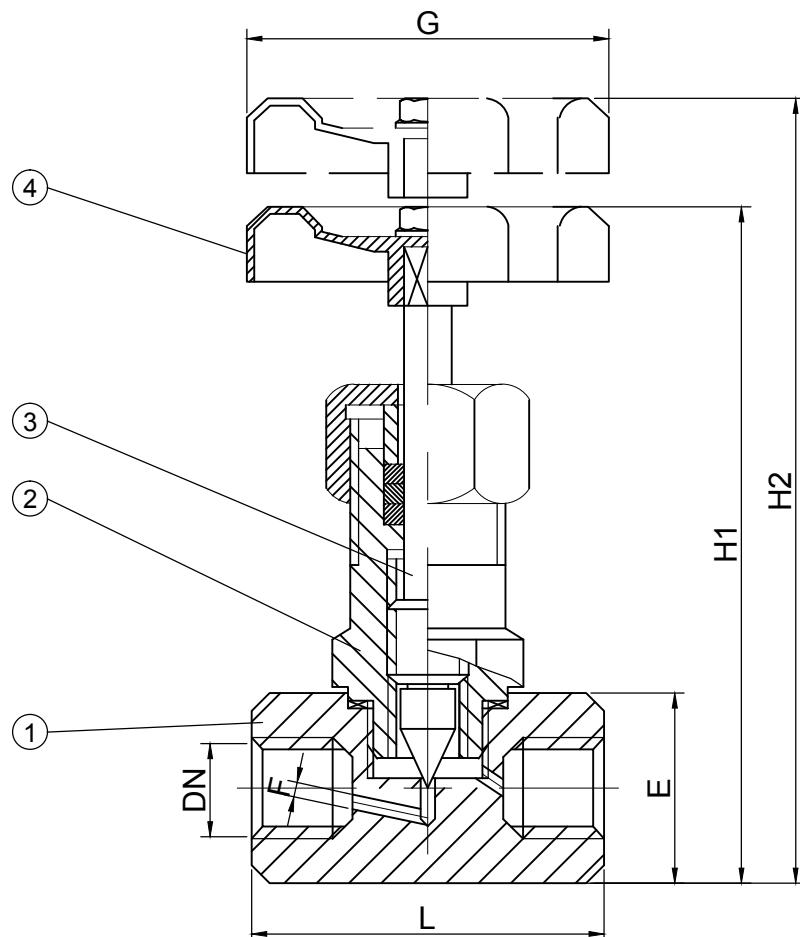
No.	Part	Material
1	Body	W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4408
3	Stem	W.Nr. 1.4401
4	Handwheel	Ductile iron, Stainless steel, Aluminium
5	Disc	W.Nr. 1.4401

SIZE	C	D	Df	L	L1	H	Weight (Kg)
DN32	84	30	90	100	113	130	2

Flange drilled according to DIN PN 6.

End cap connected with a chain to the valve body.

NEEDLE VALVE



No.	Part	Material	
1	Body	A105	A182 F316/L
2	Bonnet	A105	A182 F316/L
3	Stem	F6	A182 F316/L
4	Handwheel	Steel	Steel

* Other materials upon request

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
DN	8	10	15	20	25	32	40	50
L	60	60	60	70	75	90	100	120
F	5	6	6	7,5	9	11,5	16	19
E	30	30	30	35	40	50	60	70
G	70	70	70	70	80	90	125	125
H1	115	115	115	118	136	165	175	185
H2	127	127	127	129	147	177	187	197
KG	0,55	0,55	0,55	0,73	1,00	1,15	2,70	4,05

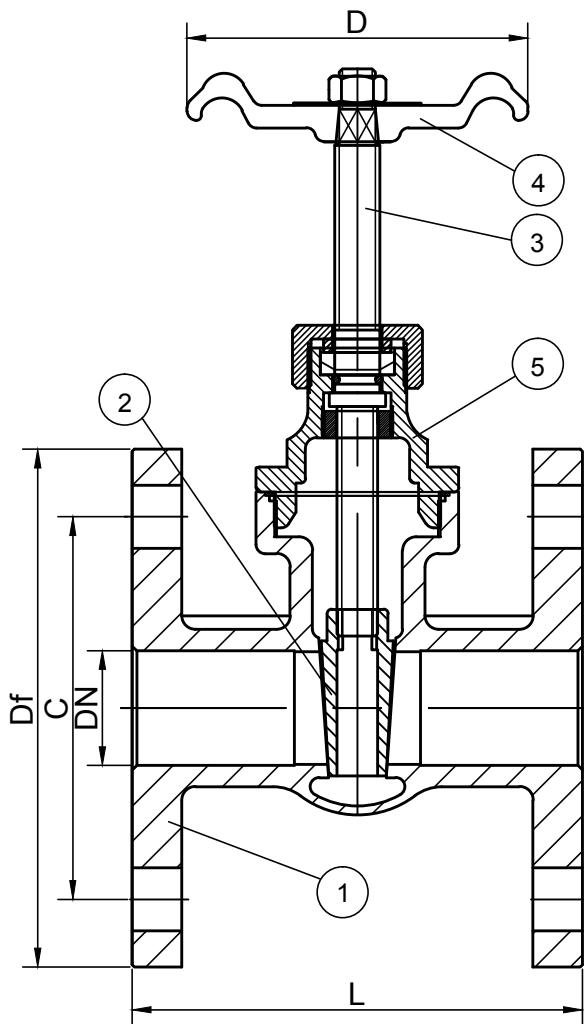
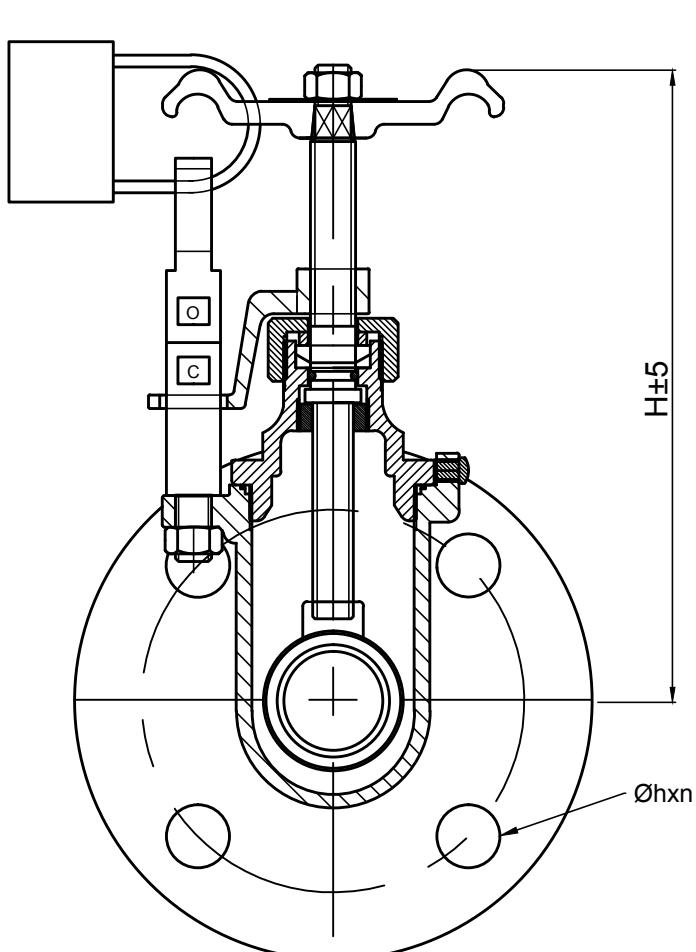
Executions:
 - Threaded - "R" or "NPT" thread
 - For welding - "SW", "BW", "BW" with nipples
 - With venting screw
 - For wall and panel fixing
 - With fixed stopper
 - * According to customer's specification



GATE VALVES

BRONZE GATE VALVE TYPE "E" PN 16, DIN EN 12288

WITH POSITION INDICATOR AND LOCKING DEVICE

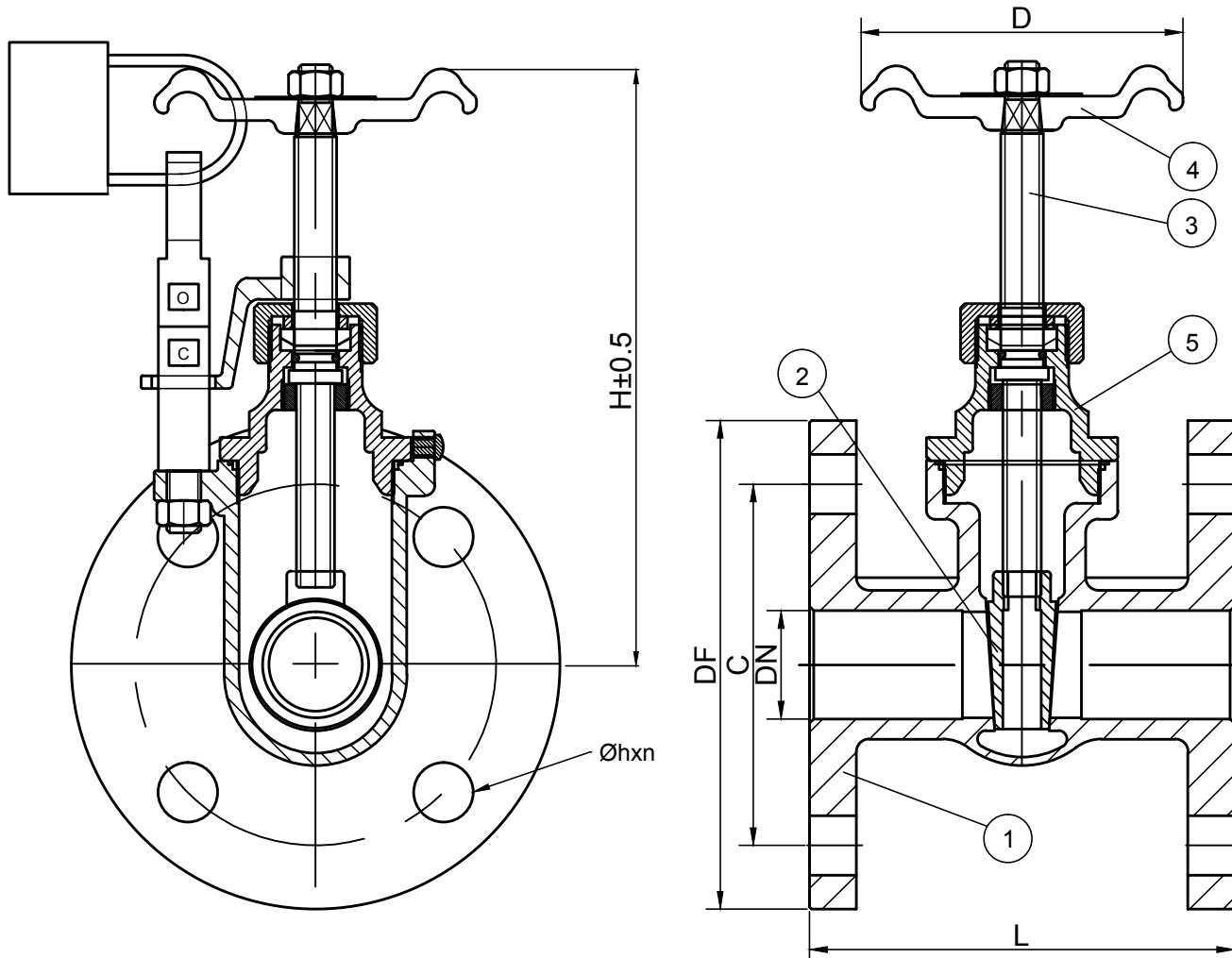


No.	Part	Material
1	Body	Bronze CC491K EN1982
2	Wedge	Bronze CC491K EN1982
3	Stem	Brass CW603N EN12164
4	Handwheel	Ductile iron, Aluminium casting
5	Bonnet	Bronze CC491K EN12165

DN	mm	15	20	25	32	40	50	65	80	100
NPS	inch	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DF (PN 16)	mm	95	105	115	140	150	165	185	200	220
C	mm	65	75	85	100	110	125	145	160	180
h	mm	14	14	14	18	18	18	18	18	18
n		4	4	4	4	4	4	4	8	8
D	mm	55	75	75	70	75	95	110	130	150
L	mm	80	80	80	90	100	110	130	150	160
H	mm	100	135	135	155	175	215	230	260	290
Weight	kg	1,7	2,2	2,7	3,5	4,7	6,9	8,8	11,8	15,3

BRONZE GATE VALVE TYPE "D" PN 16, DIN EN 12288

WITH POSITION INDICATOR AND LOCKING DEVICE

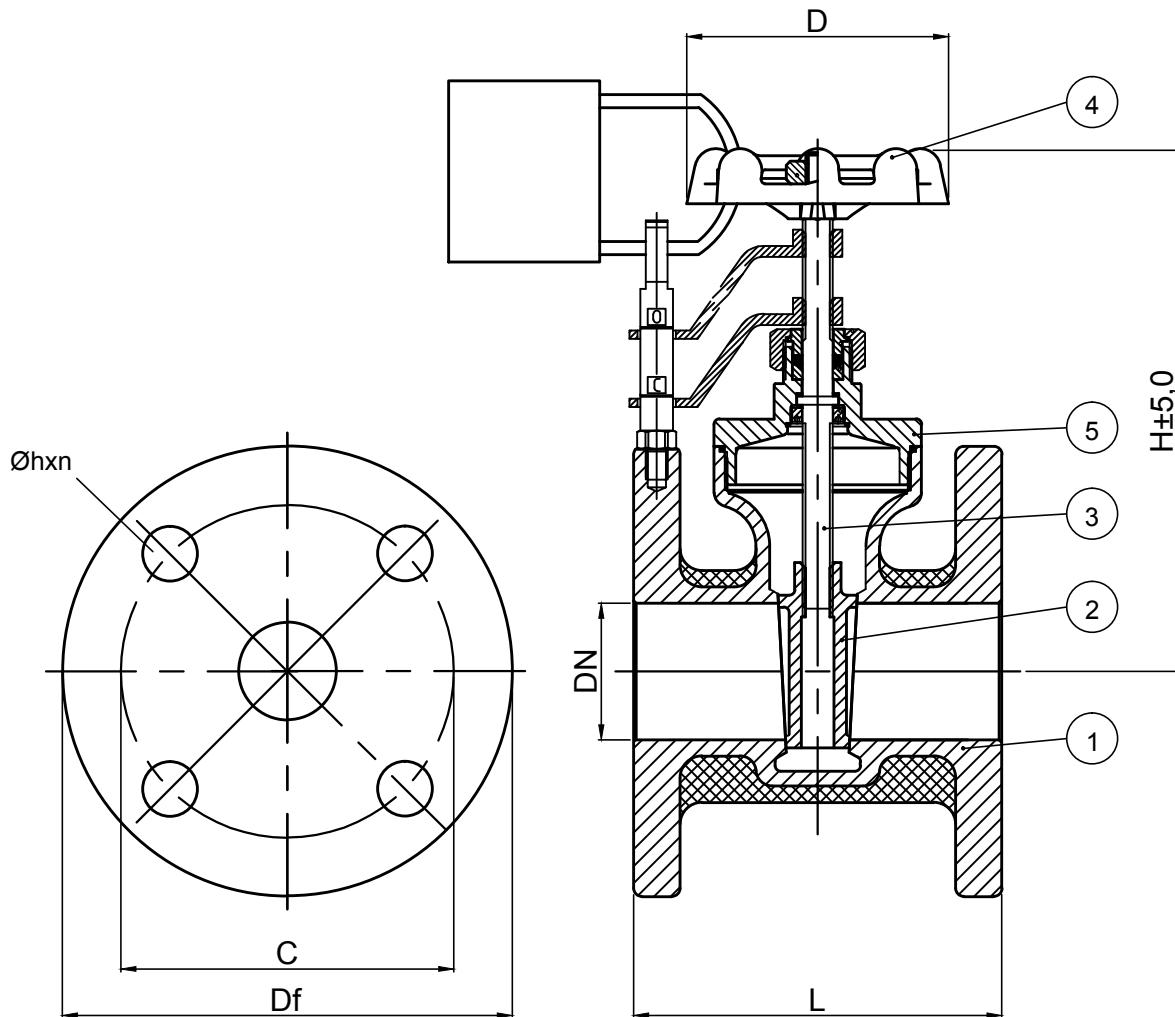


No.	Part	Material
1	Body	Bronze CC491K EN1982
2	Wedge	Bronze CC491K EN1982
3	Stem	Brass CW603N EN12164
4	Handwheel	Ductile iron, Aluminium casting
5	Bonnet	Bronze CC491K EN12165

DN	mm	15	25	32	40	50	65	80	100
NPS	inch	1/2"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DF (PN 16)	mm	95	115	140	150	165	185	200	220
C	mm	65	85	100	110	125	145	160	180
h	mm	14	14	18	18	18	18	18	18
n		4	4	4	4	4	4	8	8
D	mm	55	75	80	75	95	95	130	95
L	mm	80	100	105	120	135	145	160	170
H	mm	100	135	150	175	215	230	260	290
Weight	kg	1,7	2,8	4,8	4,9	7,1	10,7	12,4	19,0

STAINLESS STEEL GATE VALVE TYPE "E" PN 16, (DIN EN 12288)

WITH POSITION INDICATOR AND LOCKING DEVICE



No.	Part	Material
1	Body	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
2	Wedge	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
3	Stem	W.Nr. 1.4301 (AISI 304)
4	Handwheel	Ductile iron / Stainless steel / Aluminium
5	Bonnet	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)

DN	[mm]	20	25	32	40	50	65	80	100
NPS	[inch]	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
Df (PN 16)	[mm]	105	115	140	150	165	185	200	220
C	[mm]	75	85	100	110	125	145	160	180
h	[mm]	14	14	18	18	18	18	18	18
n	[mm]	4	4	4	4	4	4	8	8
D	[mm]	75	75	75	85	95	110	115	160
L	[mm]	75	80	90	100	110	130	¹⁵⁰ _{(180)*}	190
H	[mm]	130	145	160	185	205	235	285	305
Weight	kg	2,7	3,0	5,0	5,6	7,4	9,8	¹¹ _{(14)*}	20,8

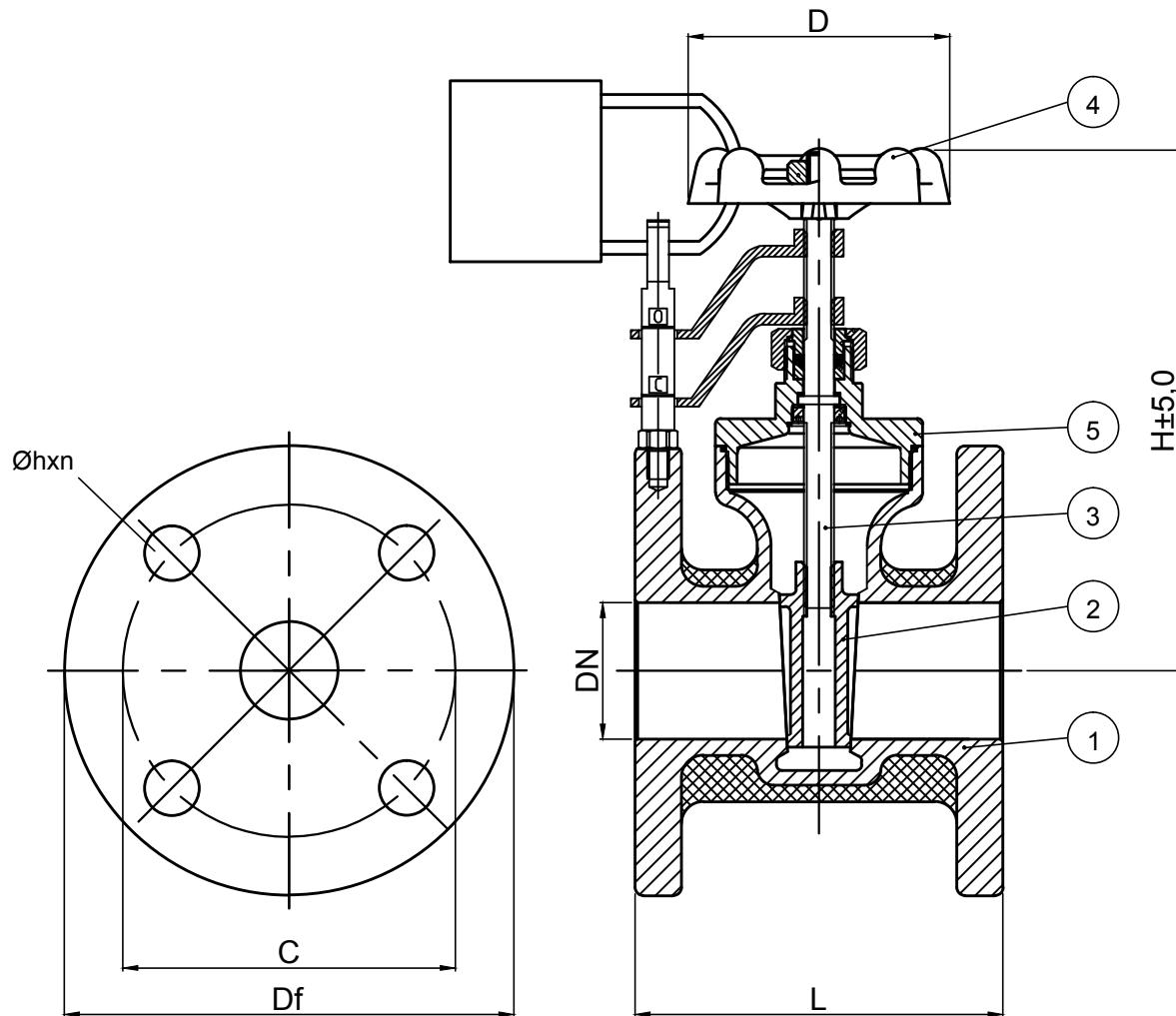
Operating temperature: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$

Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

*Face to face dimension on request !

STAINLESS STEEL GATE VALVE TYPE "D" PN 16, (DIN EN 12288)

WITH POSITION INDICATOR AND LOCKING DEVICE

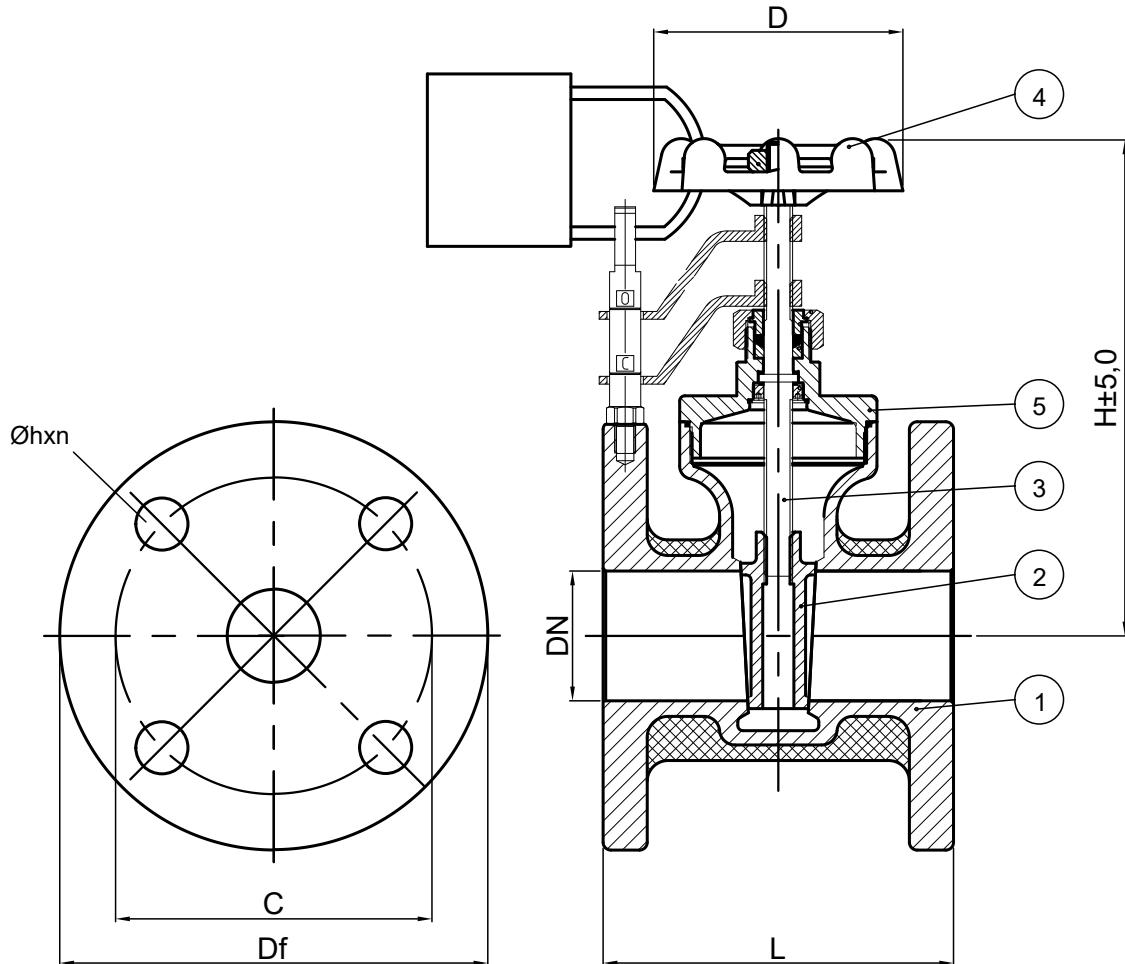


No.	Part	Material
1	Body	W.Nr.1.4308 (CF8) / W.Nr.1.4408 (CF8M)
2	Wedge	W.Nr.1.4308 (CF8) / W.Nr.1.4408 (CF8M)
3	Stem	W.Nr. 1.4301 (AISI 304)
4	Handwheel	Ductile iron / Stainless steel / Aluminum
5	Bonnet	W.Nr.1.4308 (CF8) / W.Nr.1.4408 (CF8M)

DN	[mm]	20	25	32	40	50	65	80	100
NPS	[inch]	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
Df (PN 16)	[mm]	105	115	140	150	165	185	200	220
C	[mm]	75	85	100	110	125	145	160	180
h	[mm]	14	14	18	18	18	18	18	18
n	[mm]	4	4	4	4	4	4	8	
D	[mm]	75	75	75	85	95	110	115	115
L	[mm]	75	100	90 (105)*	120	135	130 (130)*	160	190
H	[mm]	130	145	160	185	205	235	285	326
Weight	kg	2,7	3,1	5,0	5,8	7,7	9,8	11,7	18

Operating temperature: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
 Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

STAINLESS STEEL GATE VALVE TYPE "E" CLASS 150
WITH POSITION INDICATOR AND LOCKING DEVICE

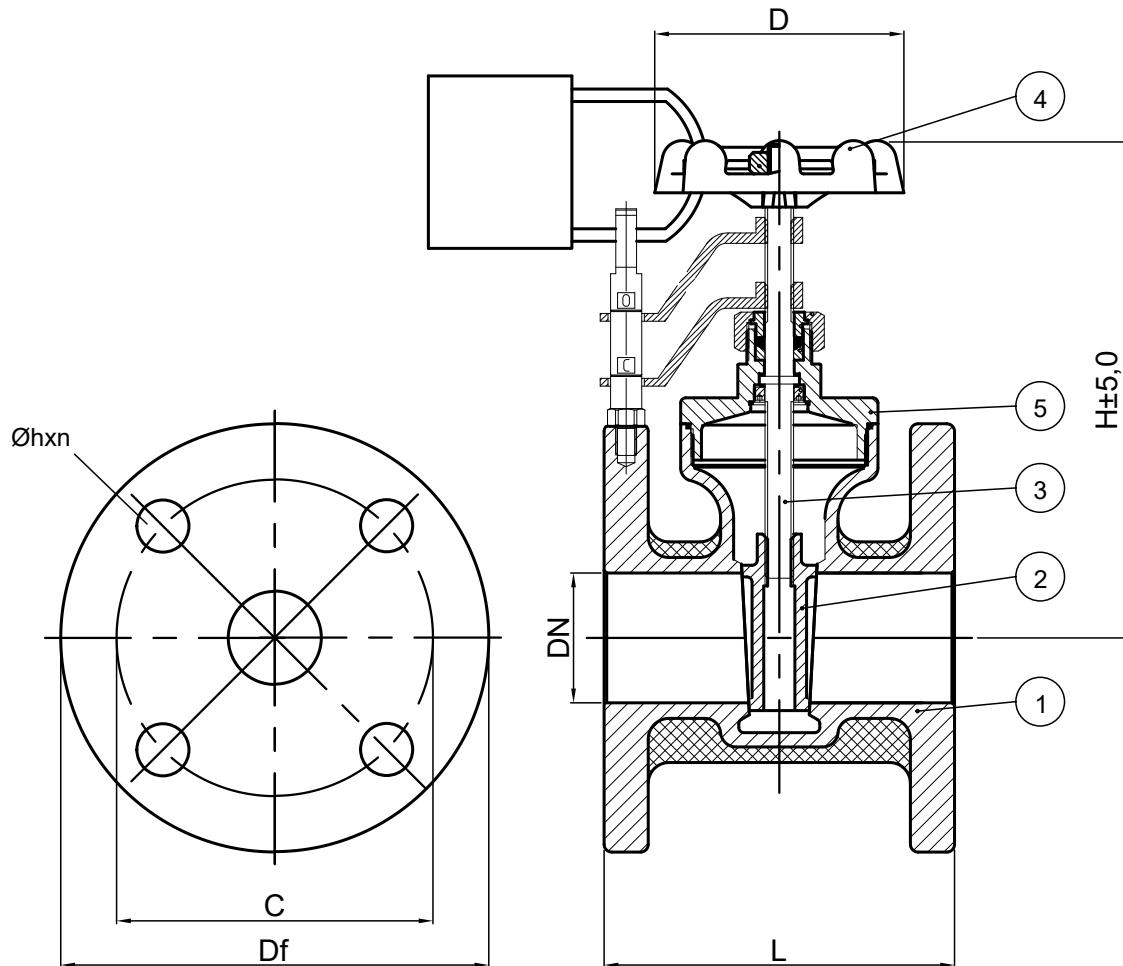


No.	Part	Material
1	Body	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
2	Wedge	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
3	Stem	W.Nr. 1.4301 (AISI 304)
4	Handwheel	Ductile iron / Stainless steel / Aluminium
5	Bonnet	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)

DN	[mm]	25	50	80
NPS	[inch]	1"	2"	3"
DN (CL 150)	[mm]	110	150	190
C	[mm]	79,4	120,7	152,4
h	[mm]	15,8	19	19
n	[mm]	4	4	4
D	[mm]	72	96	115
L	[mm]	80	110	150
H	[mm]	145	200	280
Weight	kg	2,7	6,7	10,3

Operating temperature: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$
Flanges drilled according to ASME B16.5 CL150

STAINLESS STEEL GATE VALVE TYPE "D" CLASS 150 WITH POSITION INDICATOR AND LOCKING DEVICE



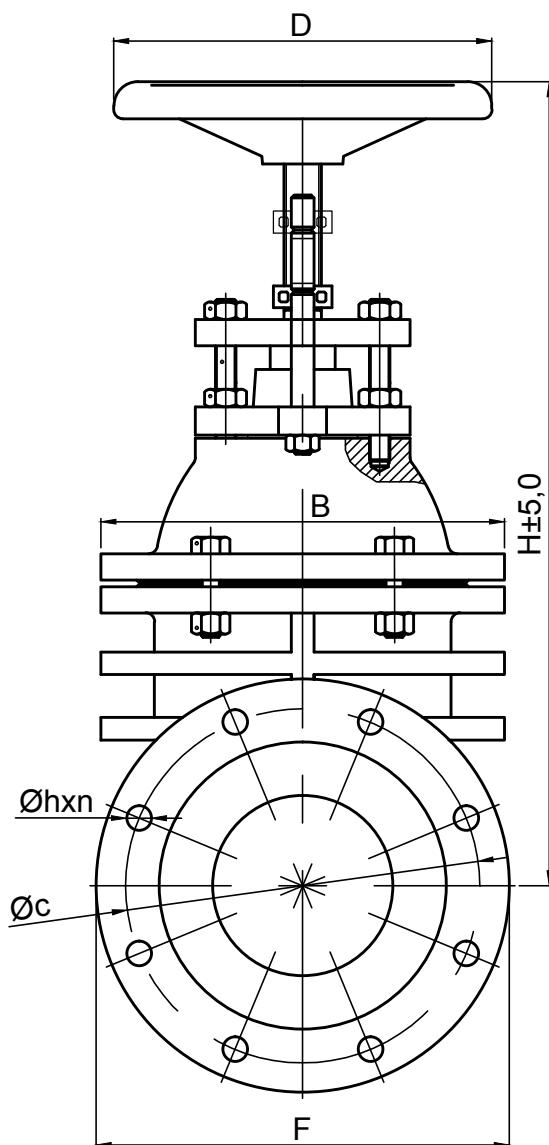
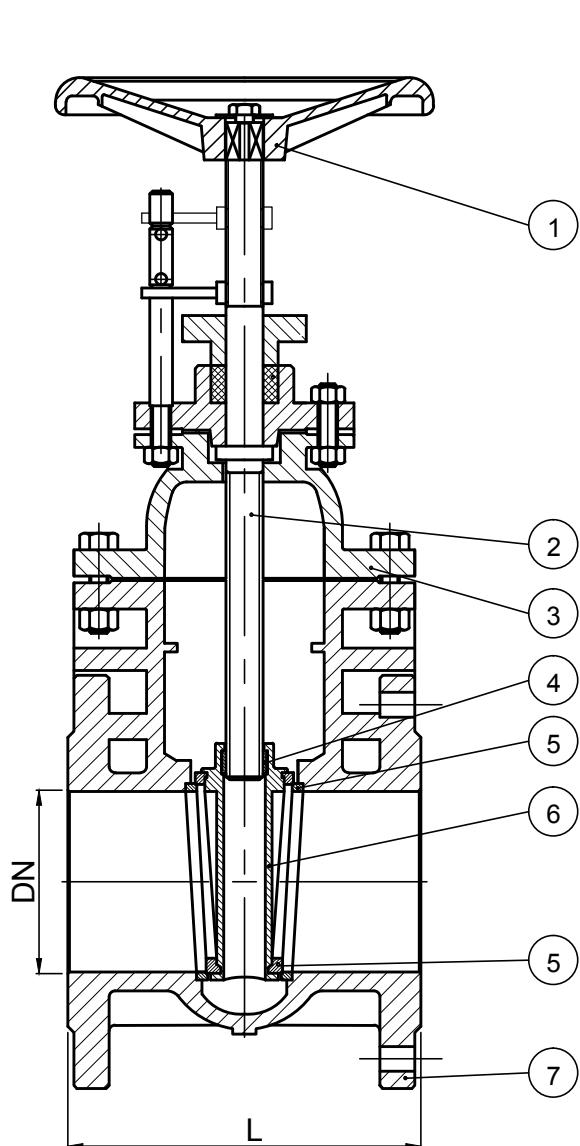
No.	Part	Material
1	Body	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
2	Wedge	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)
3	Stem	W.Nr. 1.4301 (AISI 304)
4	Handwheel	Ductile iron / Stainless steel / Aluminium
5	Bonnet	W.Nr. 1.4308 (CF8) / W.Nr. 1.4408 (CF8M)

DN	[mm]	25	50	80
NPS	[inch]	1"	2"	3"
DN (CL 150)	[mm]	110	150	190
C	[mm]	79,4	120,7	152,4
h	[mm]	15,8	19	19
n	[mm]	4	4	4
D	[mm]	75	96	115
L	[mm]	100	135	160
H	[mm]	145	205	285
Weight	kg	2,8	6,9	10,5

Operating temperature: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$
Flanges drilled according to ASME B16.5 CL150

GATE VALVE PN 10 GGG40, EN 1171

WITH POSITION INDICATOR AND LOCKING DEVICE

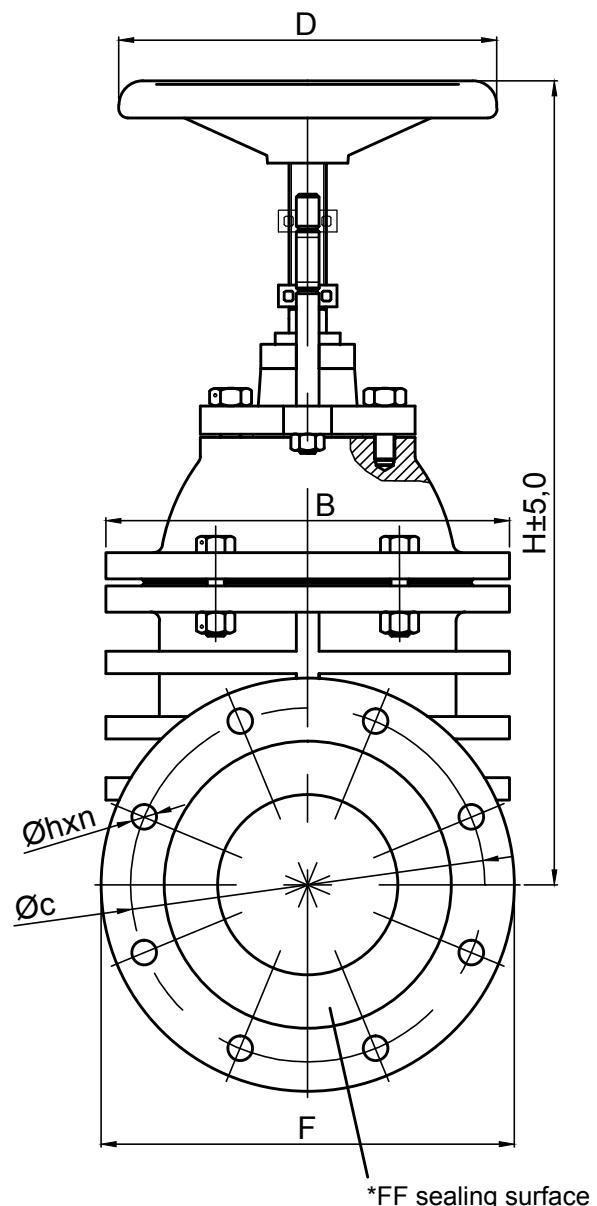
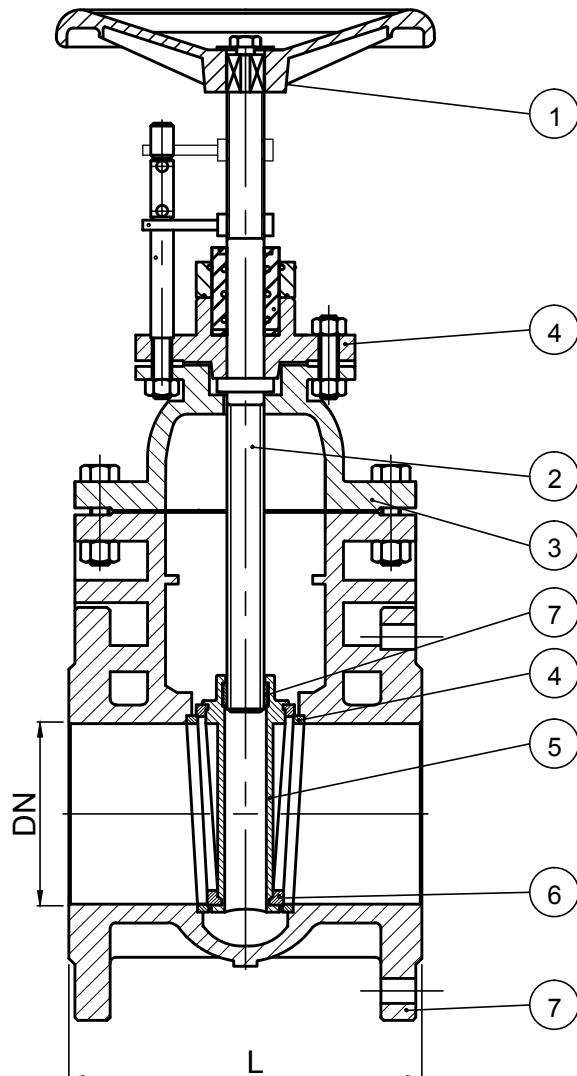


No.	Part	Material		
1	Handwheel	GG 25		
2	Stem	X20Cr13	W.Nr.1.4571	W.Nr.1.4462
3	Bonnet	GGG 40		
4	Washer	GGG 40	CuSn12Ni	
5	Seat	CuSn7ZnPb	CuAl8	SS
6	Wedge		GGG 40	
7	Body	GGG 40		

DN	[mm]	40	50	65	80	100	125	150	200	250	300
F (PN10)	[mm]	150	165	185	200	220	250	285	340	395	445
L	[mm]	140	150	170	180	190	200	210	230	250	270
H	[mm]	275	295	305	370	410	430	485	570	730	750
D	[mm]	140	140	160	160	180	200	200	225	285	320
B	[mm]	135	150	170	195	210	240	270	375	430	490
h	[mm]	19	19	19	19	19	19	23	23	23	23
n	[mm]	4	4	4	8	8	8	8	8	12	12
C	[mm]	110	125	145	160	180	210	240	295	350	400
Weight	[kg]	9,6	10,4	16,7	20,5	25,4	31,7	43,1	87,0	110	127

GATE VALVE PN 10 GGG40.3, EN 1171

WITH POSITION INDICATOR AND LOCKING DEVICE



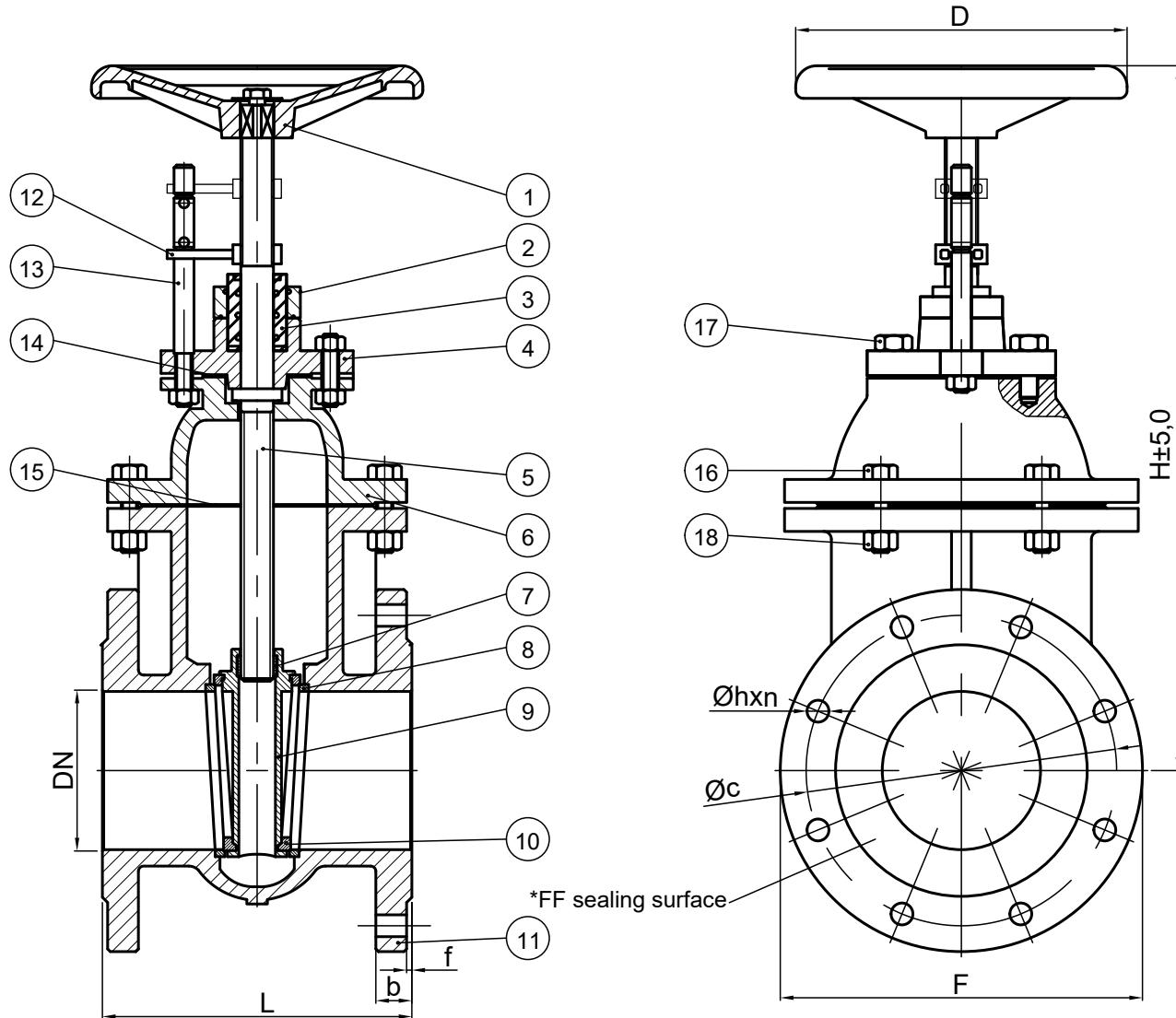
No.	Part	Material		
1	Handwheel	GGG		
2	Stem	X20Cr13	W.Nr.1.4571	W.Nr.1.4462
3	Bonnet	GGG 40.3		
4	Body seat	SS		
5	Wedge	GGG 40.3		
6	Wedge seat	SS		
7	Body	GGG 40.3		

DN	[mm]	40	50	65	80	100	125	150	200	250	300
F (PN10)	[mm]	150	165	185	200	220	250	285	340	395	445
L	[mm]	140	150	170	180	190	200	210	230	250	270
H	[mm]	275	295	305	370	410	430	485	570	730	750
D	[mm]	140	140	160	160	180	200	200	230	280	280
B	[mm]	135	150	170	195	210	240	270	375	430	490
h	[mm]	19	19	19	19	19	19	23	23	23	23
n	[mm]	4	4	4	8	8	8	8	8	12	12
C	[mm]	110	125	145	160	180	210	240	295	350	400
Weight	[kg]	9,6	10,4	16,7	20,5	25,4	31,7	43,1	87,0	110	127

Suitable for environment temperature t= -40°C

GATE VALVE PN 10 GS-C25, DIN 3352-5

WITH POSITION INDICATOR AND LOCKING DEVICE



No.	Part	Material
1	Handwheel	GGG
2	Stem	X20Cr13 / 1.4571 / 1.4462
3	Bonnet	GS-C 25
4	Seat	SS
5	Wedge	GS-C 25
6	Body	GS-C 25

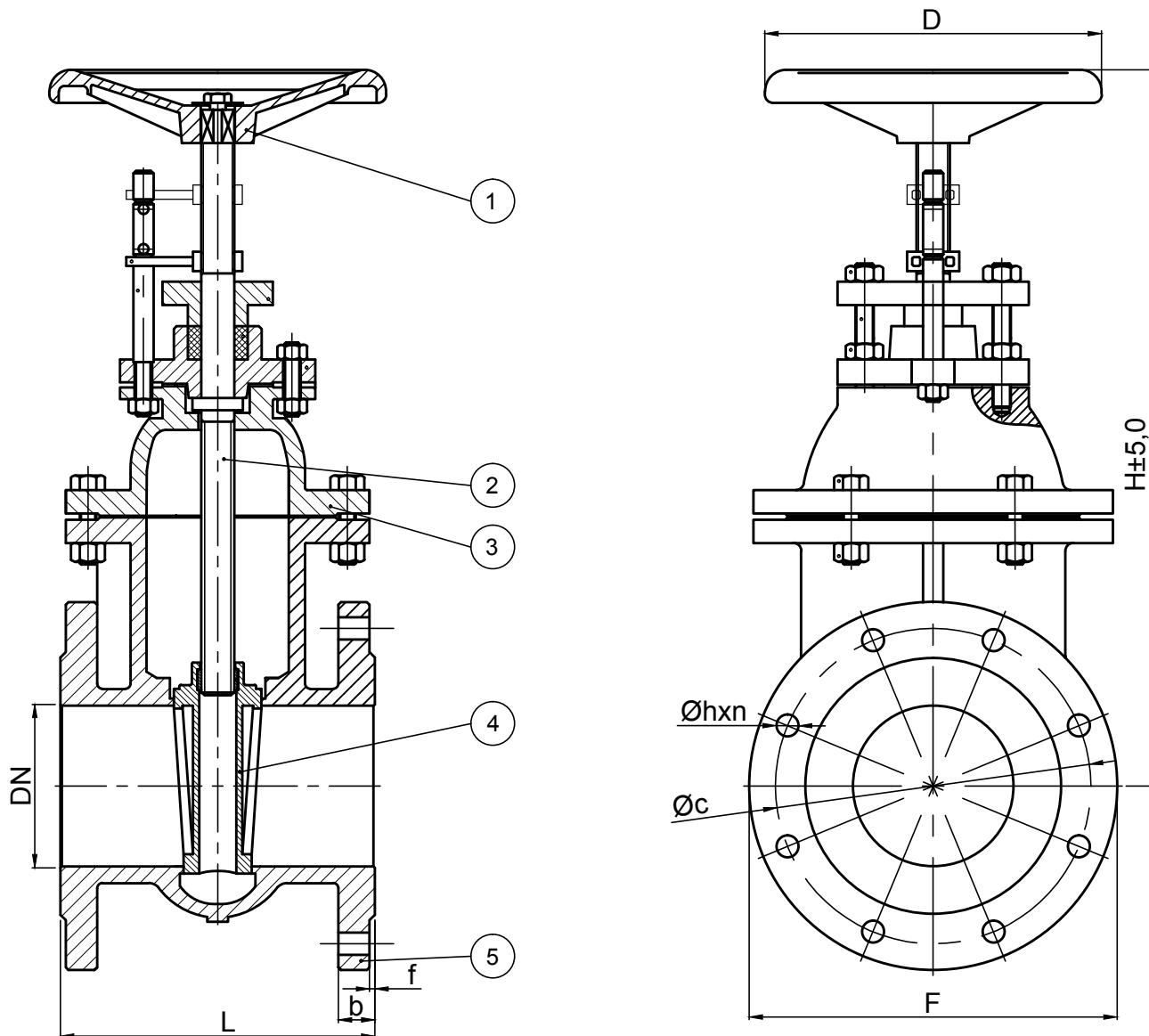
* - on request

DN	[mm]	40	50	65	80	100	125	150	200	250	300
F (PN 10) [mm]		150	165	185	200	220	250	285	340	395	445
L [mm]		140	150	170	180	190	200	210	230	250	270
H(S) [mm]		280	310	340	435	470	490	500	570	730	750
D [mm]		140	140	160	180	180	200	200	230	280	280
h [mm]		18	18	18	18	18	18	22	22	22	22
n [mm]		4	4	4	8	8	8	8	12	12	12
c [mm]		110	125	145	160	180	210	240	295	350	400
b [mm]		18	18	18	20	20	22	22	24	26	26
f [mm]		3	3	3	3	3	3	3	3	3	4
Weight [kg]		14	17	26	32	35	48	67	105	132	178

Suitable for environment temperature t= -50°C

GATE VALVE PN 10 SS

WITH POSITION INDICATOR AND LOCKING DEVICE

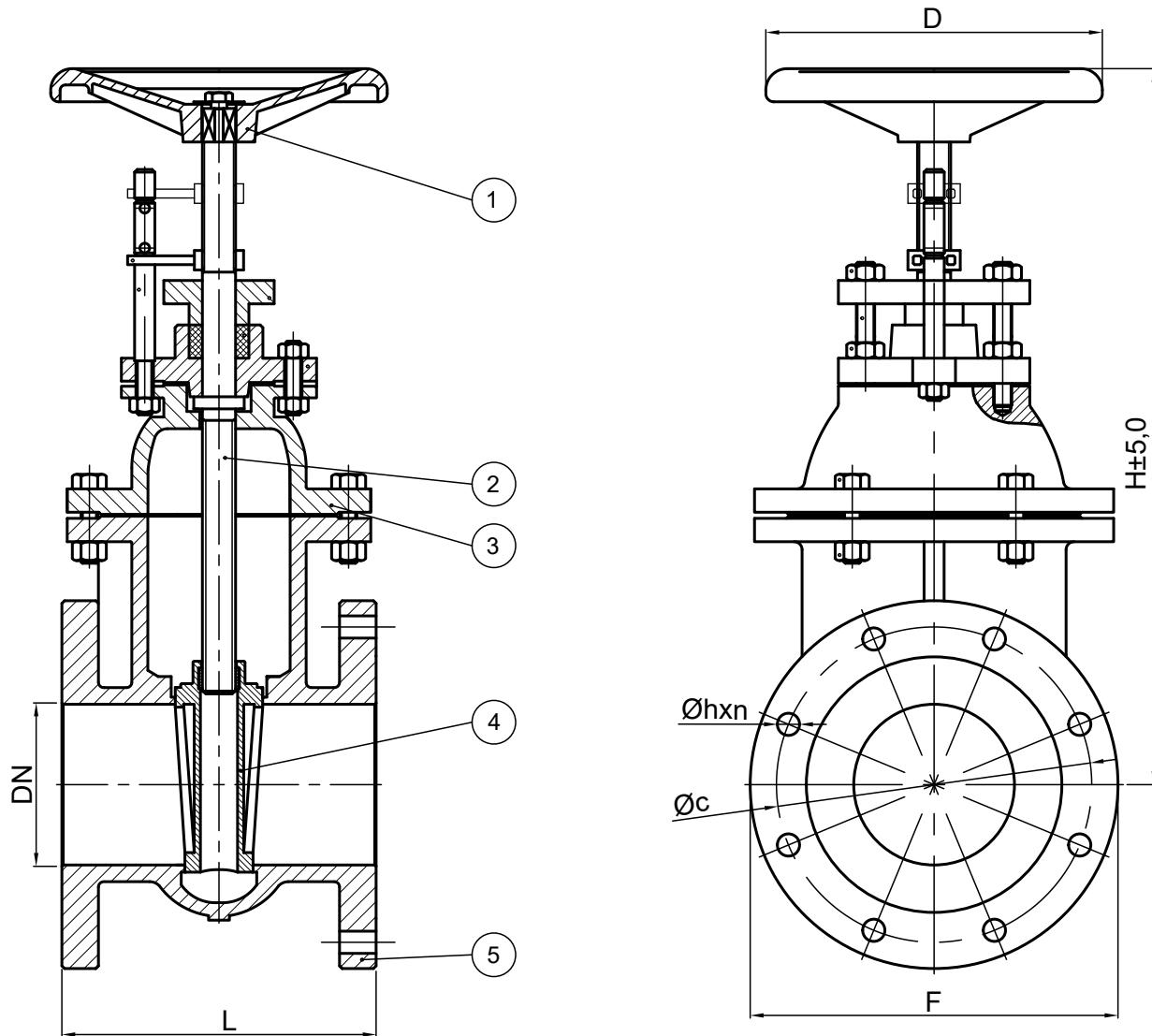


No.	Part	Material
1	Handwheel	SS304
2	Stem	CF8 / CF8M
3	Bonnet	CF8 / CF8M
4	Wedge	CF8 / CF8M / +stellite
5	Body	CF8 / CF8M

DN	[mm]	40	50	65	80	100	125	150	200	250	300
F (PN 10) [mm]		150	165	185	200	220	250	285	340	395	445
L [mm]		140	150	170	180	190	200	210	230	250	270
H [mm]		320	345	360	430	480	500	580	615	750	850
D [mm]		140	140	140	180	180	200	200	200	250	250
h [mm]		18	18	18	18	18	18	22	22	22	22
n [mm]		4	4	4	8	8	8	8	8	12	12
c [mm]		110	125	145	160	180	210	240	295	350	400
b [mm]		18	20	20	22	24	26	26	26	28	28
f [mm]		3	3	3	3	3	3	3	3	3	4
Weight [kg]		14	17	26	32	35	48	67	105	132	178

Suitable for environment temperature $t = -50^\circ\text{C}$

GATE VALVE PN 10/16 BZ
WITH POSITION INDICATOR AND LOCKING DEVICE



No.	Part	Material
1	Handwheel	GG25
2	Stem	CW710R
3	Bonnet	CC491K
4	Wedge	CC491K
5	Body	CC491K

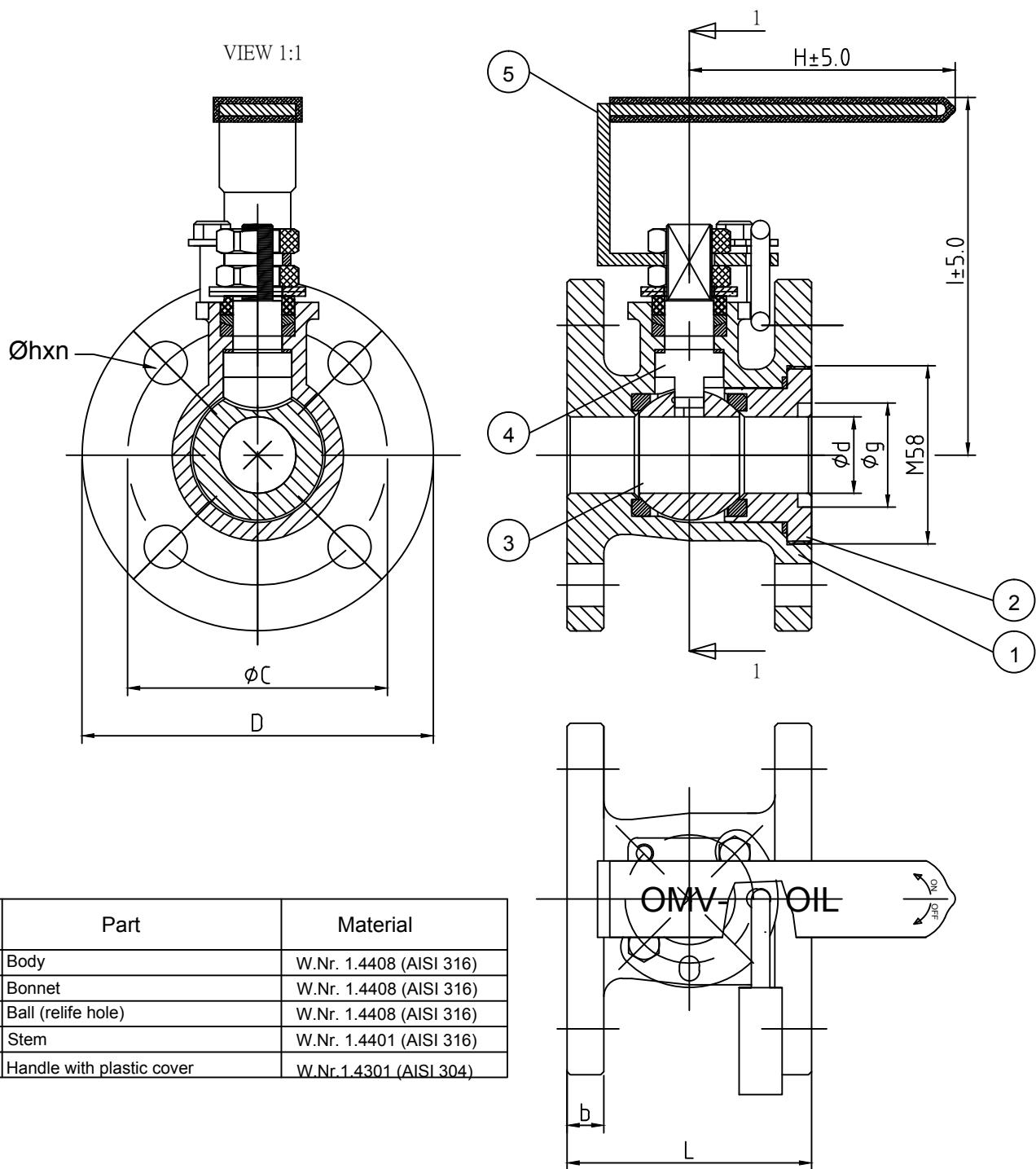
DN	[mm]	100	125	150	200	250	300
F (PN 10/16) [mm]		220	250	285	340	395	445
L [mm]		190	200	210	230	250	270
H [mm]		315	345	395	510	600	690
D [mm]		160	200	200	200	250	315
h [mm]		18	18	22	22	26	26
n [mm]		8	8	8	12	12	12
c [mm]		180	210	240	295	350	400
Weight [kg]		23	33	45	72	110	155



BALL VALVES

STAINLESS STEEL BALL VALVE PN 16 DN 25

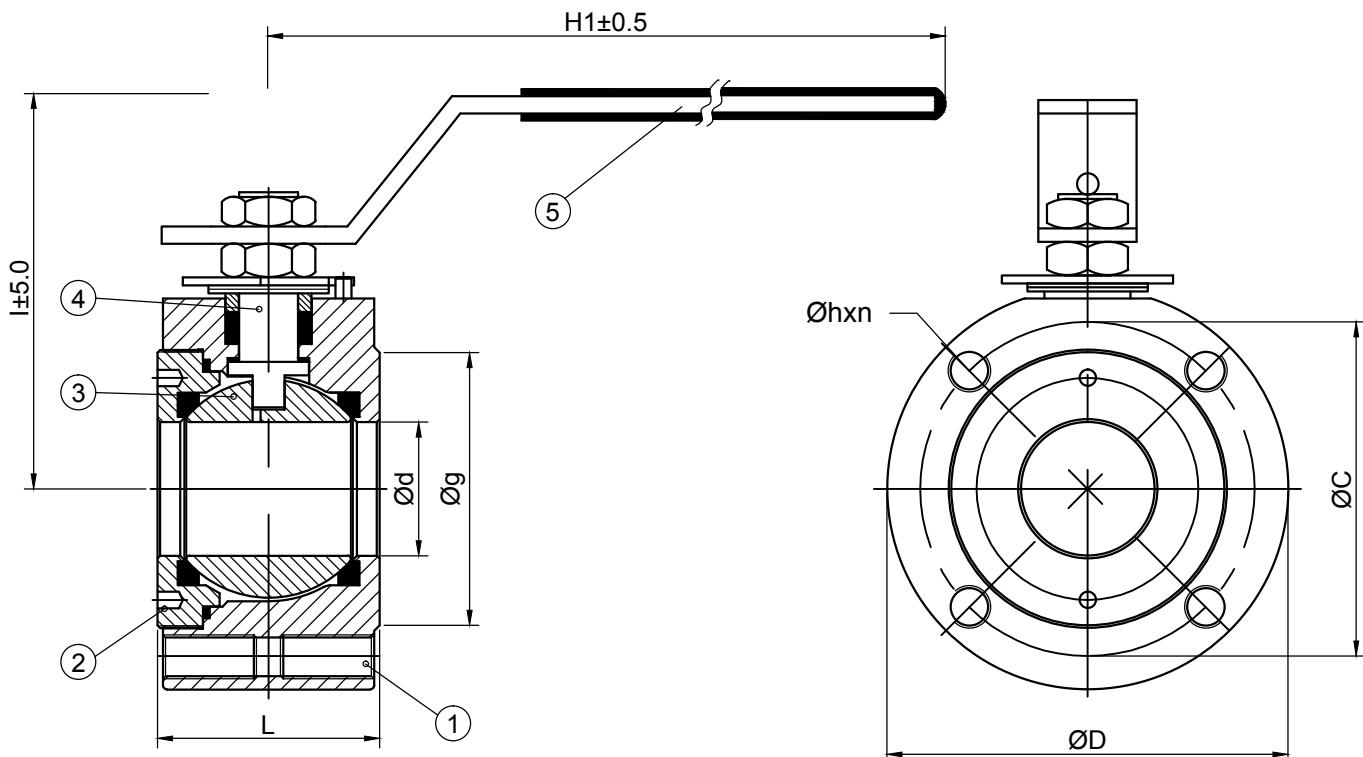
WITH LOCKING DEVICE
FACE TO FACE DIMENSION: EN 12288



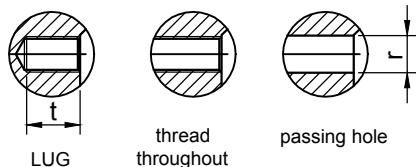
DIMENSIONS											
DN mm/inch	d	g	C	h	n	b	H	I	L	D	kg
25 1"	25	34	85	14	4	12	90	117	80	115	3,1

Operating temperature: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

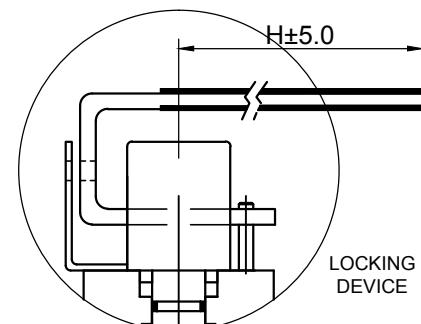
BALL VALVE WAFER PN 16/40 DN 15-100



NOTE
connection can be:



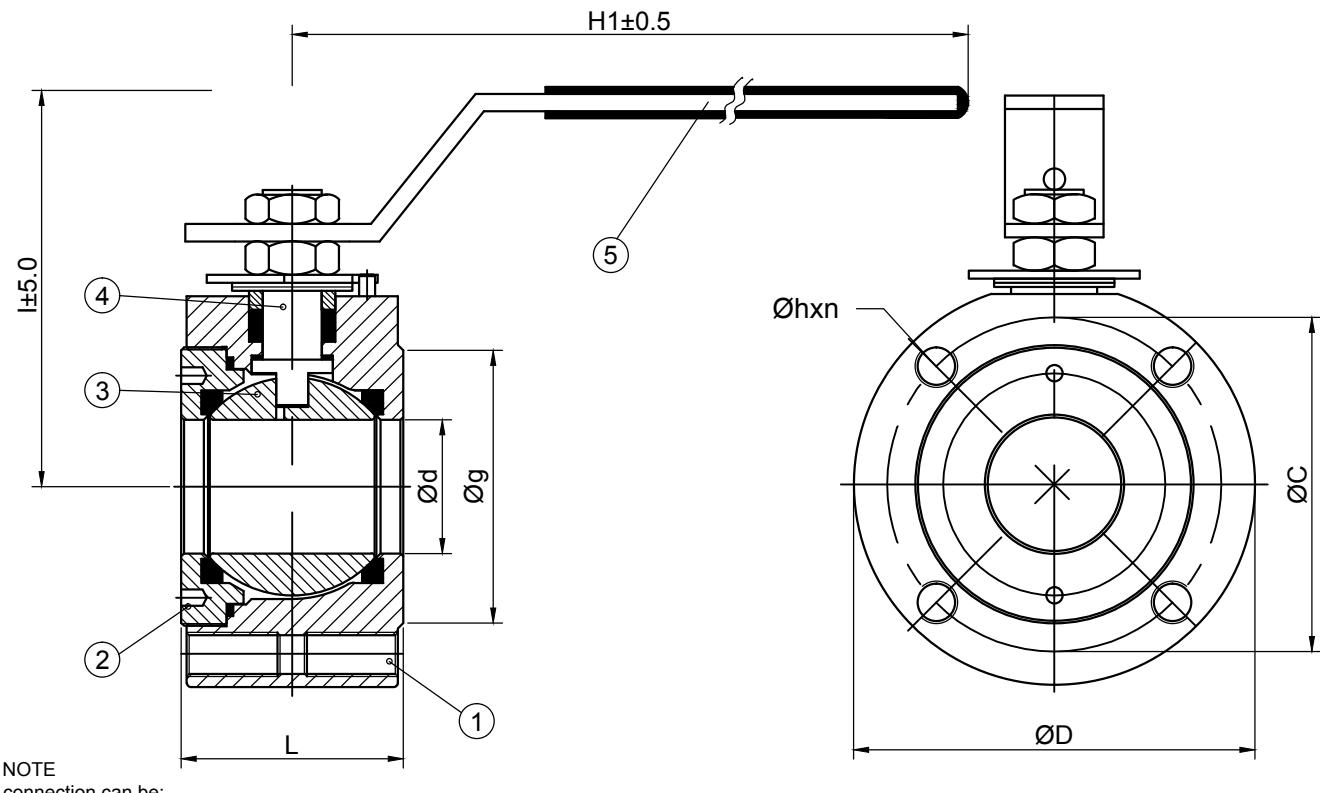
No.	Part	Material	
1	Body	W.Nr.1.0460 (A105)	W.Nr.1.4404 (AISI316L)
2	Bonnet	W.Nr.1.0460 (A105)	W.Nr.1.4404 (AISI316L)
3	Ball (relife hole)	W.Nr. 1.4408 (CF8M)	
4	Stem (anti static)	W.Nr. 1.4401 (AISI 316)	
5	Handle	W.Nr.1.4301 (AISI 304)	



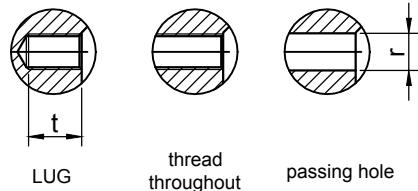
Operating temperature AISI316 type: $t_{\min} = -50^\circ\text{C}$; $t_{\max} = +180^\circ\text{C}$
Suitable for environment temperature $t \geq -50^\circ\text{C}$

DN	PN 16 & PN 40										PN 16			PN 40			KG
	mm	inch	d	g	H	H1	I	L	D	t	r	C	h	n	C	h	n
15	1/2"	15	45	85	160	105	38	95	14	18	65	M12	4	65	M12	4	1,5
20	3/4"	20	58	85	160	90	43	105	16	18	75	M12	4	75	M12	4	2
25	1"	25	68	115	173	95	46	115	16	18	85	M12	4	85	M12	4	2,7
32	1-1/4"	32	78	115	210	106	55	130	18	18	100	M16	4	100	M16	4	4
40	1-1/2"	38	88	160	210	115	66	140	18	18	110	M16	4	110	M16	4	6,5
50	2"	50	102	160	275	120	83	150	18	18	125	M16	4	125	M16	4	8
65	2-1/2"	65	122	230	275	157	108	180	20	18	145	M16	4	145	M16	8	15
80	3"	80	130	235	370	161	126	200	24	18	160	M16	8	160	M16	8	20
100	4"	100	162	235	370	181	154	220	24	18	180	M16	8	190	M20	8	30

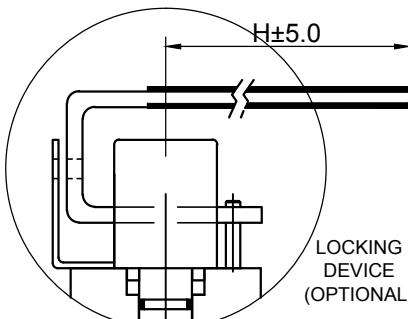
BRONZE BALL VALVE WAFER PN 16/40 DN 15-100



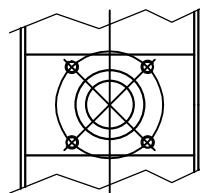
NOTE
connection can be:



No.	Part	Material (bar)
1	Body	Rg5 /Rg7
2	Bonnet	Rg5/Rg7
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)
4	Stem (anti-static)	W.Nr.1.4401 (AISI 316)
5	Handle	W.Nr.1.4301 (AISI 304)

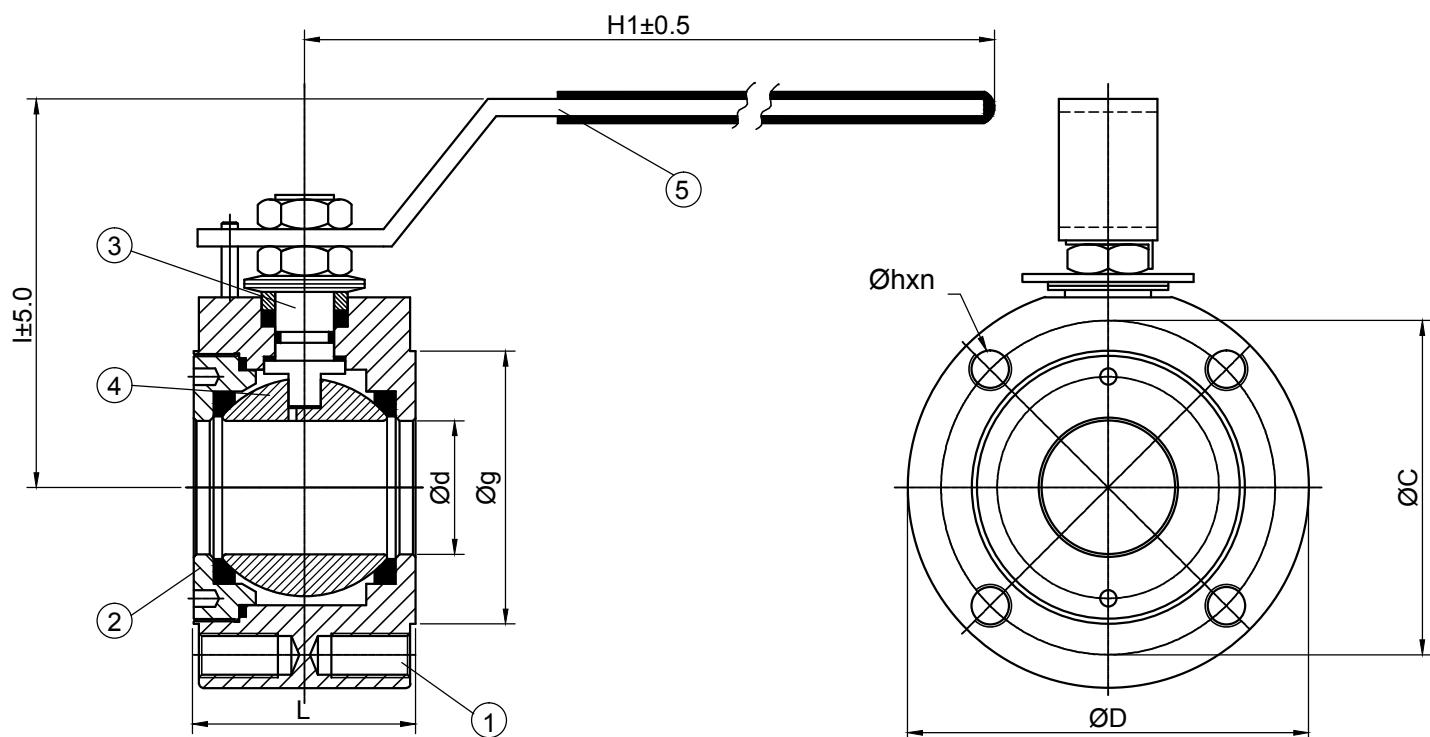


ISO 5211

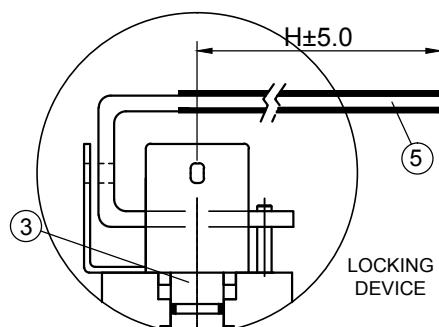
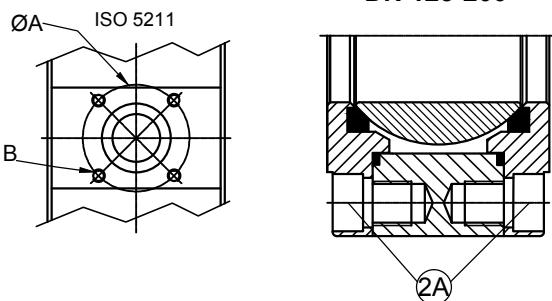


DN		d	g	PN 16			PN 40			H	H1	I	L	D	t	r	KG
mm	inch			C	h	n	C	h	n								
15	1/2"	15	45	65	M12	4	65	M12	4	85	160	92	38	95	14	18	2,1
20	3/4"	20	58	75	M12	4	75	M12	4	85	160	100	43	105	16	18	2,5
25	1"	25	68	85	M12	4	85	M12	4	115	173	114	46	115	16	18	3
32	1-1/4"	32	78	100	M16	4	100	M16	4	115	210	122	55	130	18	18	5,2
40	1-1/2"	38	88	110	M16	4	110	M16	4	160	210	127	66	140	18	18	6,5
50	2"	50	102	125	M16	4	125	M16	4	160	275	153	83	150	18	18	10,7
65	2-1/2"	65	122	145	M16	4	145	M16	8	230	275	165	108	180	20	18	15,6
80	3"	80	138	160	M16	8	160	M16	8	235	370	187	126	200	24	18	21,2
100	4"	100	162	180	M16	8	190	M20	8	235	370	200	154	220	24	24	31,5

BALL VALVE WAFER FS PN 16/40 DN 100-200

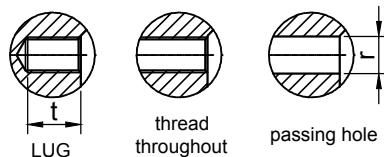


DN 125-200



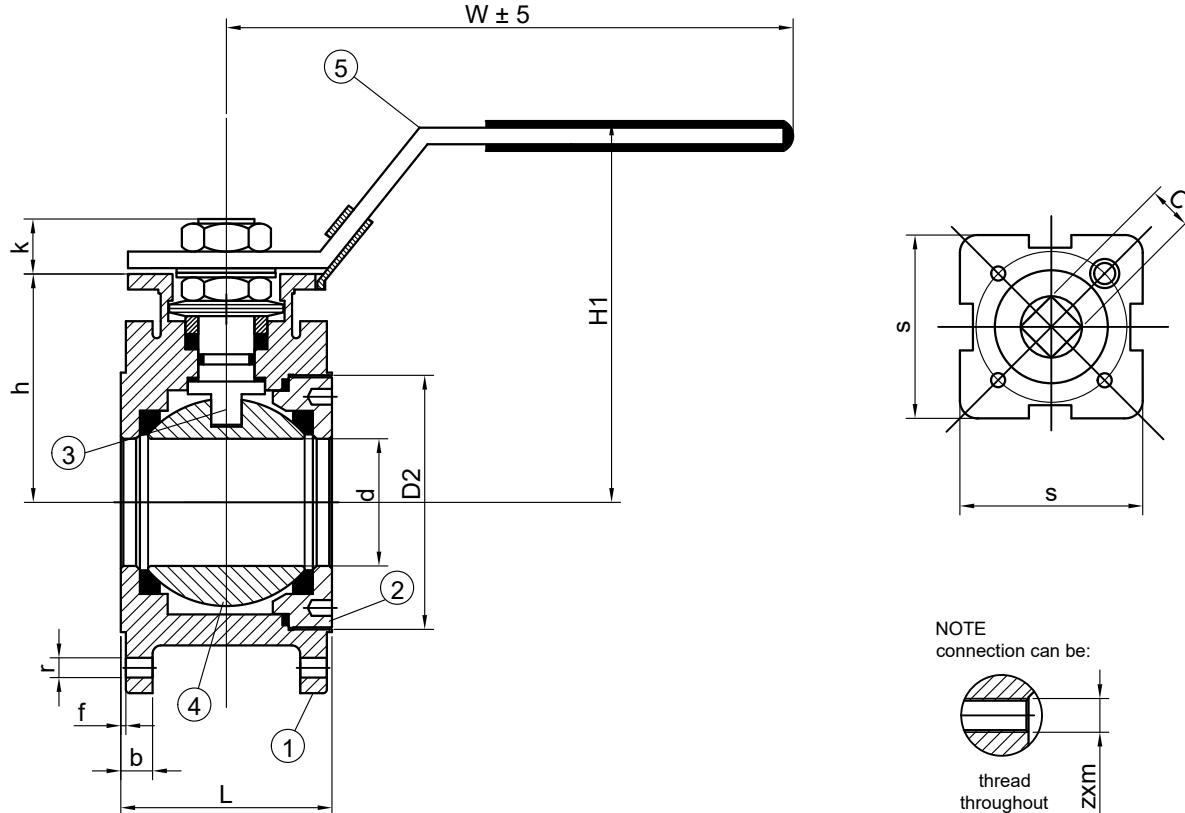
No.	Part	Material	
1	Body	WCB	CF8/ CF8M
2	Bonnet	WCB	CF8/ CF8M
2A	Ring nut screw Steel 8.8 galvanized		
3	Stem (anti-static) W.Nr.1.4401 (AISI 316)		
4	Ball (relief hole) W.Nr.1.4401 (AISI 316) / 1.4408 (CF8M)		
5	Handle Galvanized steel		

NOTE
connection can be:

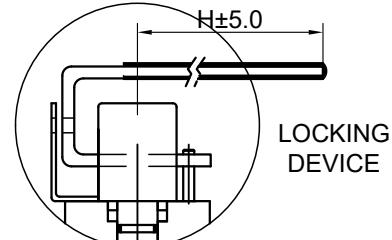


DN	ISO-5211				d	g	H	H1	I	L	D	t	r	PN 16			PN 40			KG
	mm	inch	A	B										C	h	n	C	h	n	
100	4"	F07	70	M8	94	162	230	370	200	152	220	24	18	180	M16	8	190	M20	8	30
125	5"	F10	102	M10	118	188	230	370	220	177	250	25	18	210	M16	8	220	M24	8	47
150	6"	F10	102	M10	144	218	250	584	235	240	285	28	24	240	M20	8	250	M24	12	69
200	8"	F14	140	M16	194	285	350	584	335	314	340	28	24	295	M20	12	320	M27	12	120

BALL VALVE WAFER PN 16 DN 15-100



No.	Part	Material
1	Body	1.4308/1.4408 CF8/CF8M 1.0619 WCB
2	Bonnet	1.4308/1.4408 CF8/CF8M 1.0619 WCB
3	Stem	1.4401 (AISI 316)
4	Ball	1.4401 (AISI 316)
5	Handle	1.4401 (AISI 316)

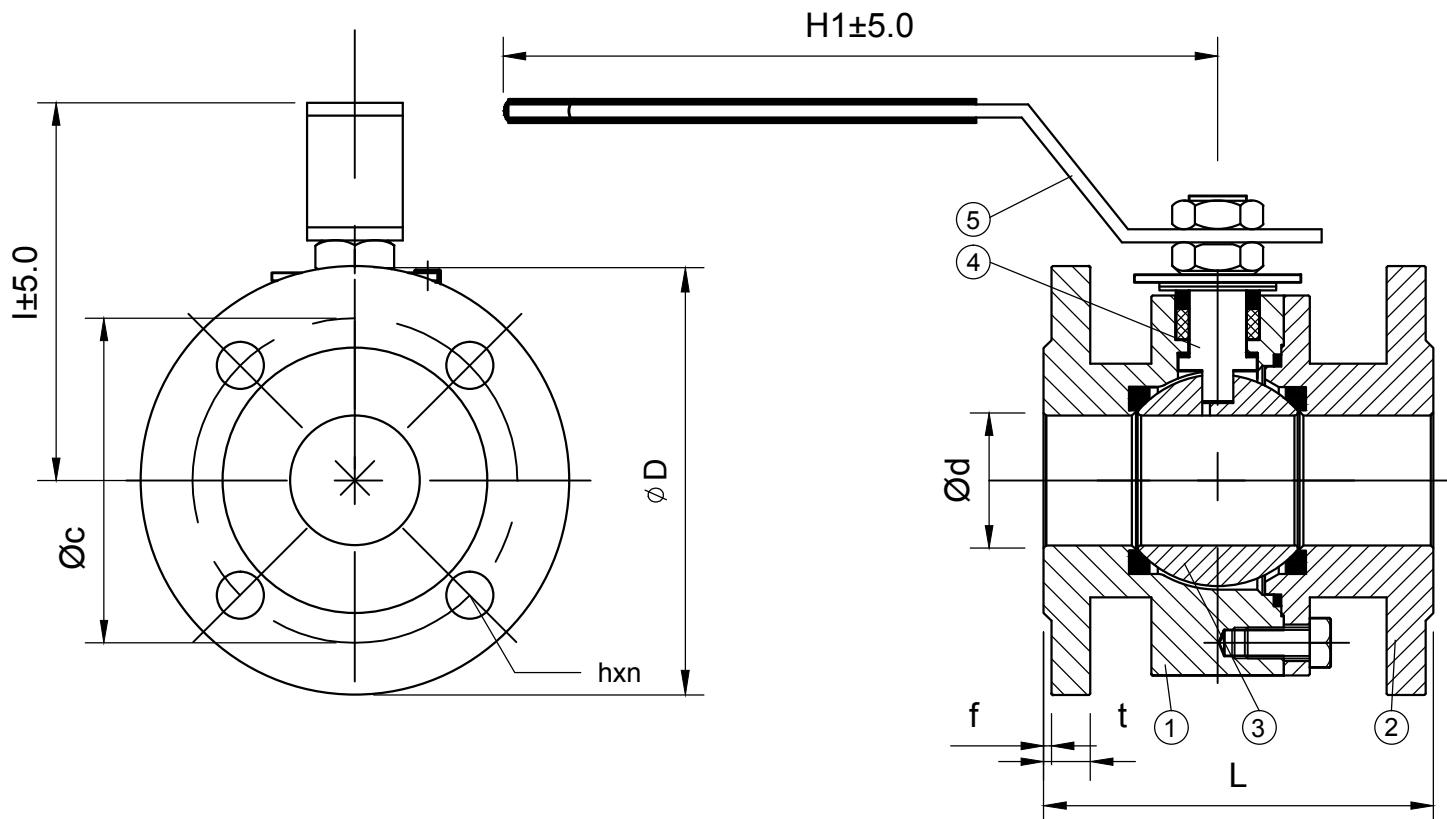


Operating temperature SS: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

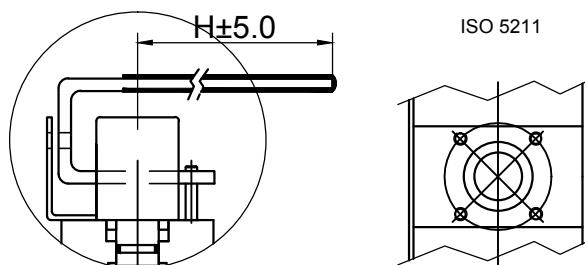
DN	L	D	D1	D2	b	f	H	H1	W	r	h	zxm	k	s
mm	inch													
15	1/2"	42	95	65	45	11	2	85	77	120	14	55,3	4-M12	9,5 42,6
20	3/4"	38	105	75	58	11	2	85	94	120	14	60,3	4-M12	9,5 42,6
25	1"	50	115	85	68	12	2	115	90	160	14	58,5	4-M12	10 50,5
32	1-1/4"	60	140	100	78	14	2	115	100	160	18	70,5	4-M16	12,5 50,5
40	1-1/2"	65	150	110	88	15	3	160	105	200	18	76,5	4-M16	14,5 64,5
50	2"	80	165	125	102	16	3	160	125	200	18	84,5	4-M16	14 65,5
65	2-1/2"	100	185	145	122	16	3	230	140	255	18	94,5	4-M16	17 93,6
80	3"	118	200	160	138	18	3	235	145	255	18	110,5	8-M16	16 94,2
100	4"	140	220	180	158	18	3	235	175	300	18	122,5	8-M16	19 94,1

BALL VALVE FLANGED PN 16 DN 15-200

- FACE TO FACE DIMENSION ACC. TO EN 558-1 SERIE 27



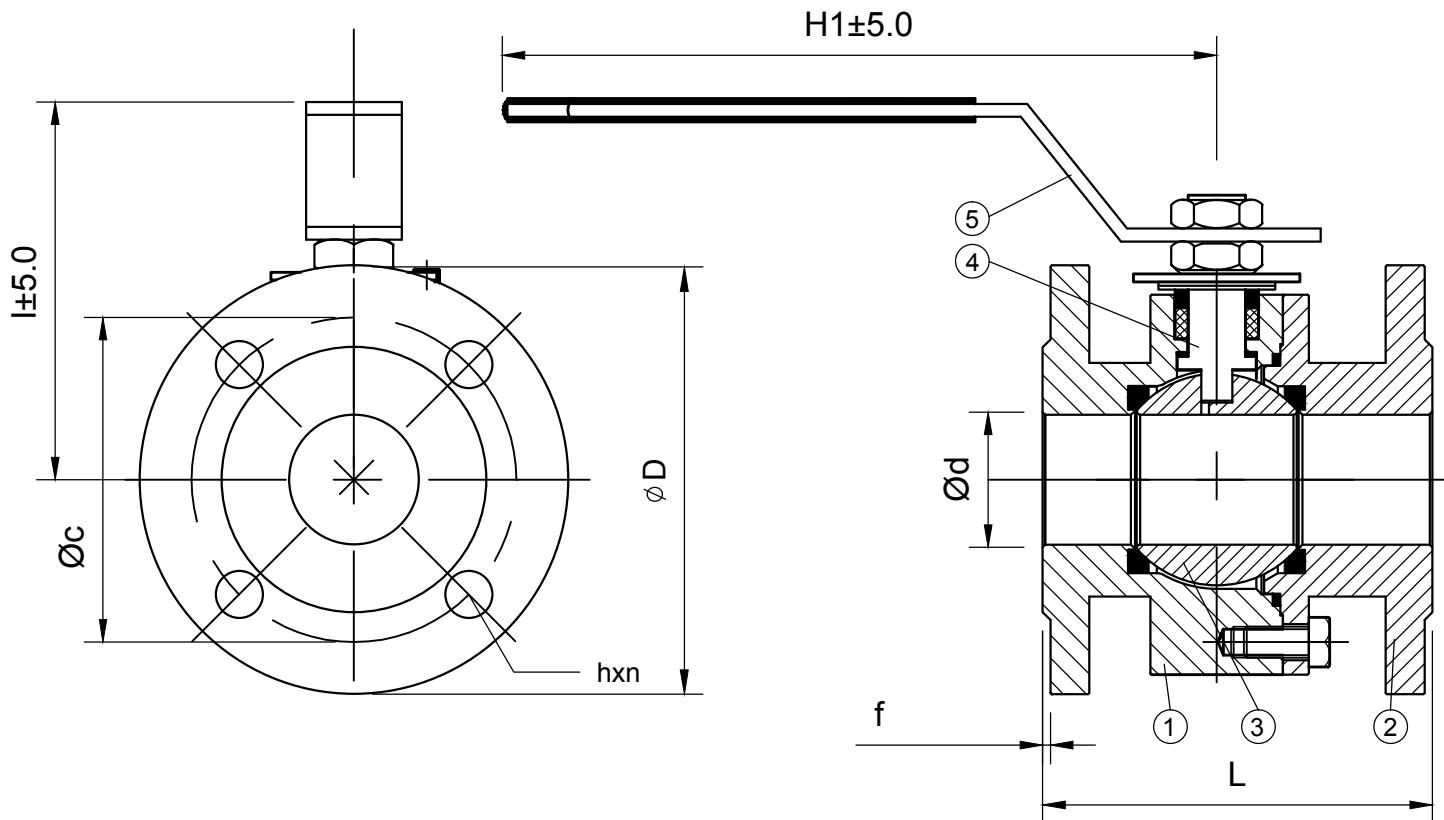
No.	Name	Material	
1	Body	WCB / A105	CF8M / AISI 316
2	Bonnet	WCB / A105	CF8M / AISI 316
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)	
4	Stem (anti-static)	W.Nr.1.4401 (AISI 316)	
5	Handle	W.Nr.1.4301 (AISI 304)	

Operating temperature AISI316: $t_{min} = -50^\circ\text{C}$; $t_{max} = +180^\circ\text{C}$ Suitable for environment temperature $t \geq -50^\circ\text{C}$ LOCKING
DEVICE

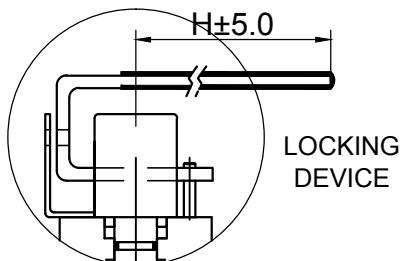
DN		d	c	h	n	H	H1	I	L F4/F5	D	f	t	KG
mm	inch												
15	1/2"	15	65	14	4	85	160	92	115	95	2	14	3,9
20	3/4"	20	75	14	4	85	160	104	120	105	2	16	5,2
25	1"	25	85	14	4	115	173	118	125	115	2	16	6,6
32	1-1/4"	32	100	18	4	115	210	122	130	140	2	16	8,3
40	1-1/2"	38	110	18	4	160	210	127	140	150	3	16	11,1
50	2"	50	125	18	4	160	275	156	150	165	3	18	14,5
65	2-1/2"	65	145	18	4	230	275	165	170	185	3	18	23,7
80	3"	80	160	18	8	235	370	190	180	200	3	20	27,8
100	4"	100	180	18	8	235	370	200	190	220	3	20	31
125	5"	125	210	18	8	-	370	181	325	250	3	22	56
150	6"	150	240	22	8	-	584	249	350	285	3	22	109
200	8"	200	295	22	12	-	584	288	400	340	3	24	195

BRONZE BALL VALVE FLANGED PN 16 DN 15-100

- FACE TO FACE DIMENSION ACC. TO EN 558-1 SERIE 27

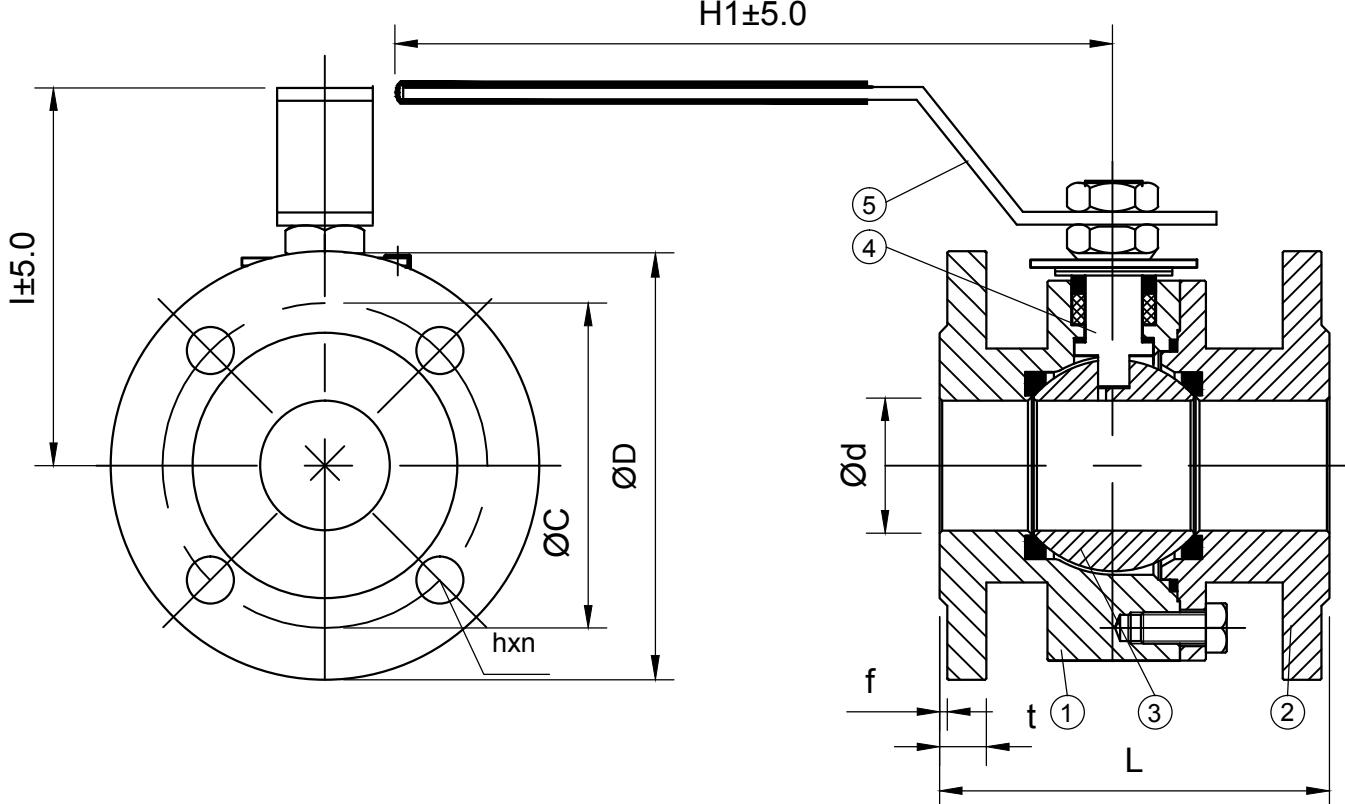


No.	Part	Material
1	Body	RG5 / RG7
2	Bonnet	RG5 / RG7
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)
4	Stem (anti-static)	W.Nr.1.4401 (AISI 316)
5	Handle	W.Nr.1.4301 (AISI 304)



PN 16												
DN		d	H	H1	I	L F4/F5	f	Weight kg	C	h	n	D
mm	inch											
15	1/2"	15	85	160	92	115	2	3,9	65	14	4	95
20	3/4"	20	85	160	100	120	2	5,2	75	14	4	105
25	1"	25	115	173	114	125	2	6,6	85	14	4	115
32	1-1/4"	32	115	210	122	130	2	8,3	100	18	4	140
40	1-1/2"	38	160	210	127	140	3	11,4	110	18	4	150
50	2"	50	160	275	153	150	3	14,5	125	18	4	165
65	2-1/2"	65	230	275	165	170	3	23,7	145	18	4	185
80	3"	80	235	370	187	180	3	27,8	160	18	8	200
100	4"	100	235	370	200	190	3	31,8	180	18	8	220

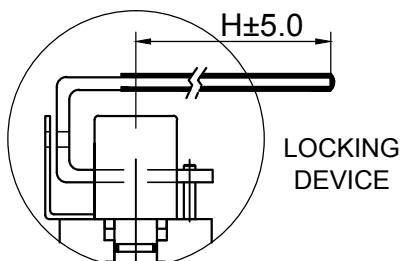
BALL VALVE FLANGED CL150 DN 15-200 (1/2"-8")



No.	Part	Material	
1	Body	WCB/A105/LF2	CF8M/AISI316
2	Bonnet	WCB/A105/LF2	CF8M/AISI316
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)	
4	Stem (Anti-static)	W.Nr.1.4401 (AISI 316)	
5	Handle	W.Nr.1.4301 (AISI 304)	

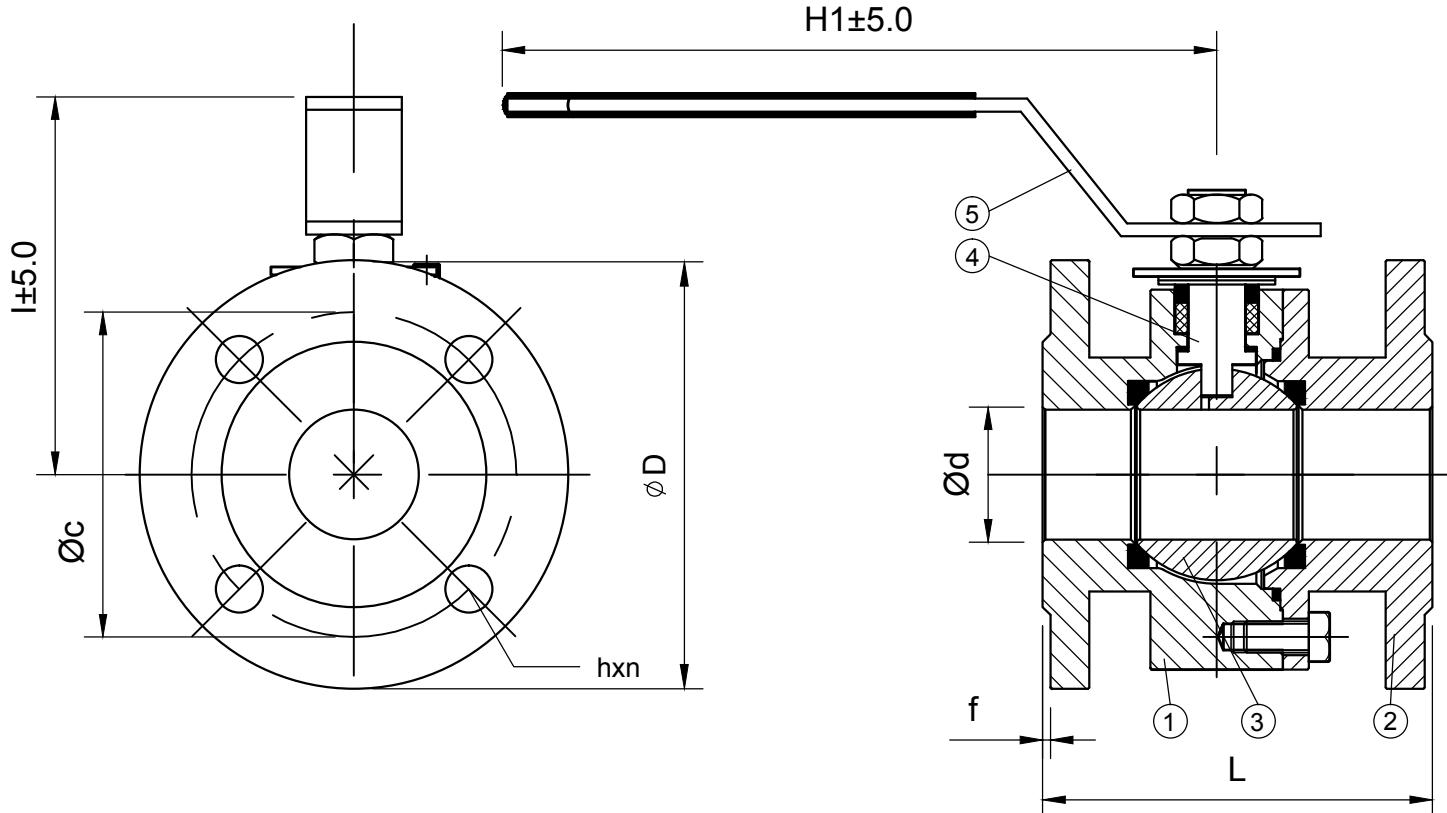
Operating temperature AISI316: $t_{min}=-50^{\circ}\text{C}$; $t_{max}=+180^{\circ}\text{C}$

Suitable for environment temperature $t \geq -50^{\circ}\text{C}$



DN		d	H	H1	I	L	f	C	h	n	D	t	kg
mm	inch												
15	1/2"	15	85	160	87	108	1,6	60,3	15,8	4	89	11,1	3
20	3/4"	20	85	160	94	117	1,6	69,8	15,8	4	98	12,7	5
25	1"	25	115	173	106	127	1,6	79,4	15,8	4	108	14,3	6,5
32	1-1/4"	32	115	210	116	140	1,6	88,9	15,8	4	117	15,7	8
40	1-1/2"	38	160	210	120	165	1,6	98,4	15,8	4	127	17,5	13
50	2"	50	160	275	147	178	1,6	120,6	19	4	150	19,1	18
65	2-1/2"	65	160	275	165	190	1,6	139,7	19	4	178	22,3	23
80	3"	80	235	370	178	203	1,6	152,4	19	4	190	23,9	32
100	4"	100	235	370	192	229	1,6	190,5	19	8	229	23,9	40
125	5"	125	-	370	220	254	1,6	216	22	8	254	23,9	56
150	6"	150	-	584	249	394	1,6	241,3	22	8	279	25,4	114
200	8"	200	-	584	288	457	1,6	298,5	22	8	343	28,5	203

BRONZE BALL VALVE FLANGED CL150 DN 15-100 (1/2"- 8")

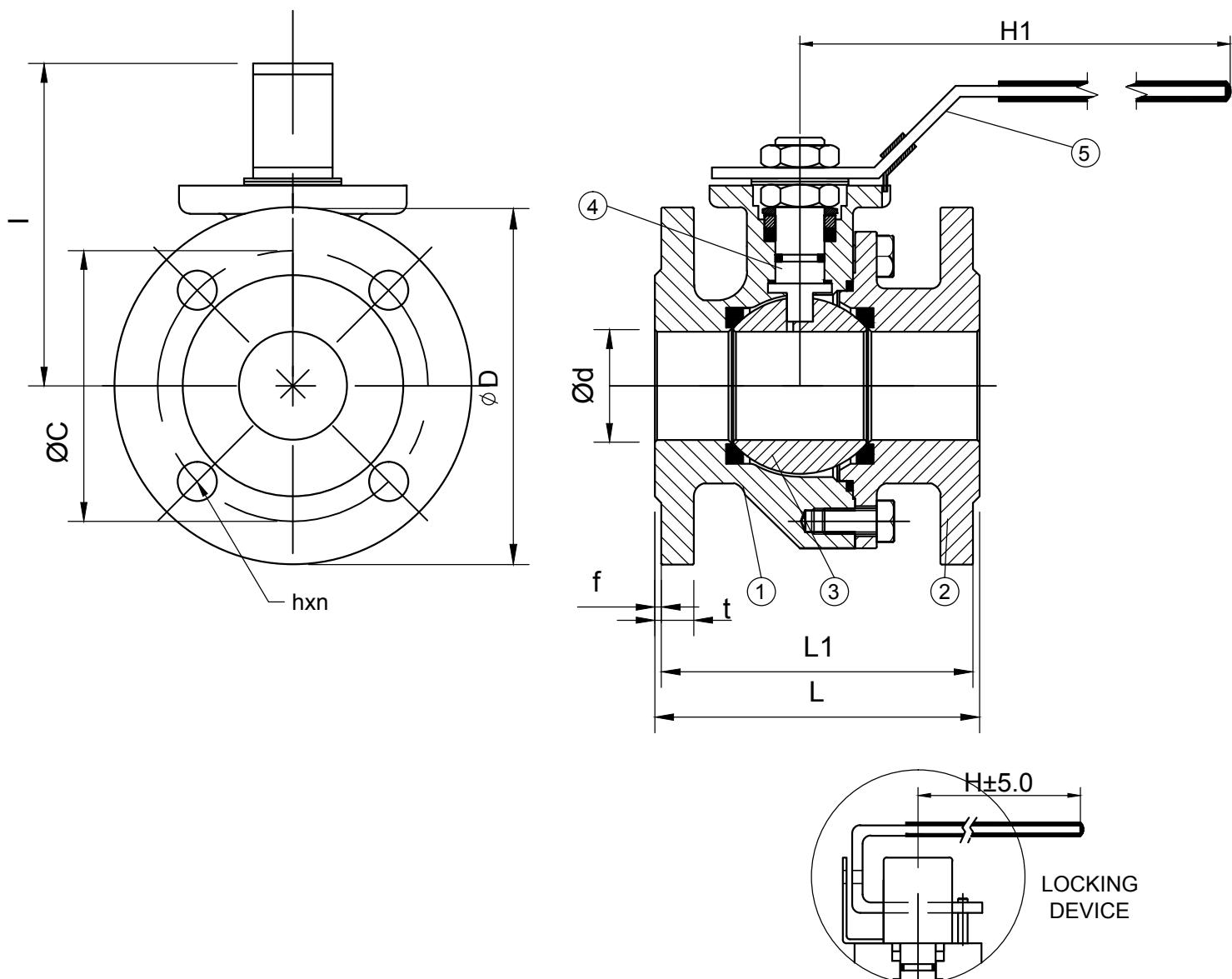


No.	Part	Material
1	Body	RG5 / RG7
2	Bonnet	RG5 / RG7
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)
4	Stem (Anti-static)	W.Nr.1.4401 (AISI 316)
5	Handle	W.Nr.1.4301 (AISI 304)

DN	d	H	H1	I	L	f	Weight	C	h	n	D	
mm	inch						kg					
15	1/2"	15	85	160	92	108	1,5	3,6	60,3	15,8	4	89
20	3/4"	20	85	160	100	117	1,5	3,8	69,8	15,8	4	98
25	1"	25	115	173	114	127	1,5	5,6	79,4	15,8	4	108
32	1-1/4"	32	115	210	122	140	1,5	8,4	88,9	15,8	4	117
40	1-1/2"	38	160	210	127	165	1,5	10,3	98,4	15,8	4	127
50	2"	50	160	275	153	178	1,5	13,8	120,6	19	4	152
65	2-1/2"	65	230	275	165	190	1,5	26,0	139,7	19	4	178
80	3"	80	235	370	187	203	1,5	29,3	152,4	19	4	190
100	4"	100	232	370	200	229	1,5	39,4	190,5	19	8	229

BALL VALVE FLANGED PN 16 DN 15-100

- FACE TO FACE DIMENSION ACC. TO EN 558-1 SERIE 27 (DIN 3202 F4)



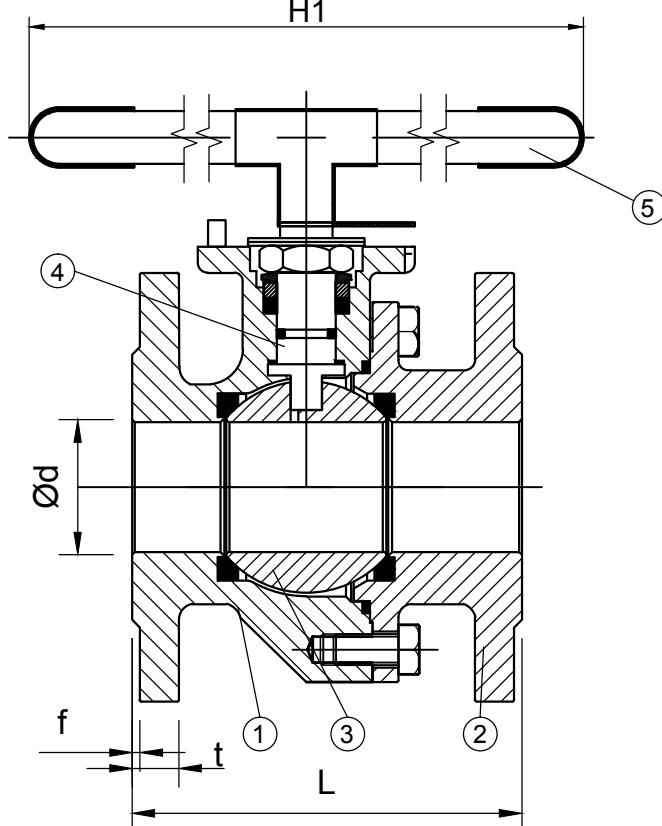
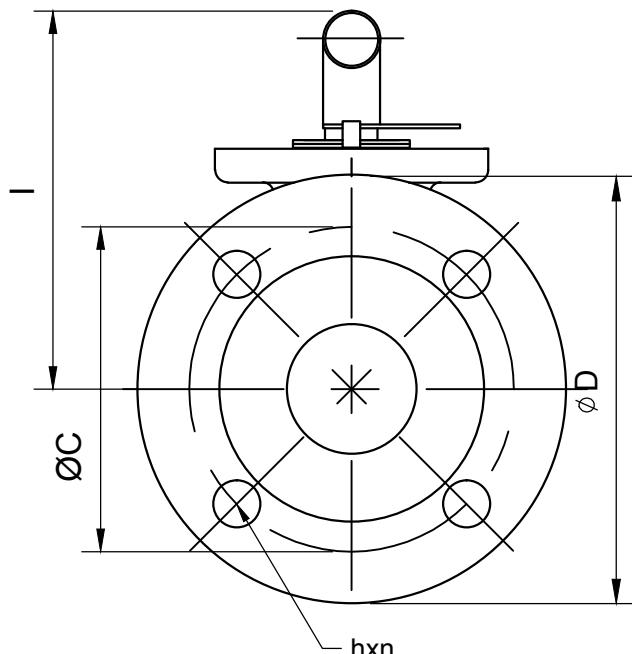
No.	Part			Material					
1	Body			CF8 / AISI 304 CF8M / AISI 316					
2	Bonnet			CF8 / AISI 304 CF8M / AISI 316					
3	Ball			W.Nr.1.4401 (AISI 316)					
4	Stem			W.Nr.1.4401 (AISI 316)					
5	Handle			W.Nr.1.4301 (AISI 304)					

Operating temperature AISI316: tmin = -50°C; tmax = +180 °C
Suitable for environment temperature t≥-50°C

DN	d	D	C	H	L / L1	H1	I	h	n	f	t	Weight
												kg
15	1/2"	15	95	65	85	115 / 110	117	82	14	4	2	16 2,08
20	3/4"	20	105	75	85	120 / 115	117	87	14	4	2	18 2,80
25	1"	25	115	85	115	125 / 120	164	90	14	4	2	18 3,73
32	1-1/4"	32	140	100	115	130 / 125	164	100	18	4	2	18 5,18
40	1-1/2"	38	150	110	160	140 / 133	203	116	18	4	3	18 6,56
50	2"	50	165	125	160	150 / 142	203	125	18	4	3	18 8,90
65	2-1/2"	65	185	145	230	170 / 162	255	154	18	4	3	18 13,40
80	3"	76	200	160	235	180 / 172	255	164	18	8	3	20 18,20
100	4"	94	220	180	235	190 / 182	302	180	18	8	3	20 25,70

BALL VALVE FLANGED PN 16 DN 125-200

- FACE TO FACE DIMENSION ACC. TO EN 558-1 SERIE 27 (DIN 3202 F5)



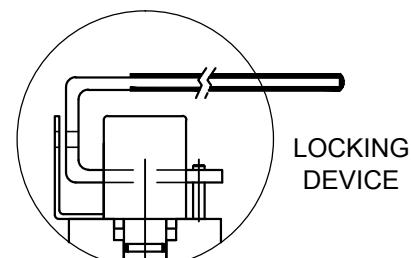
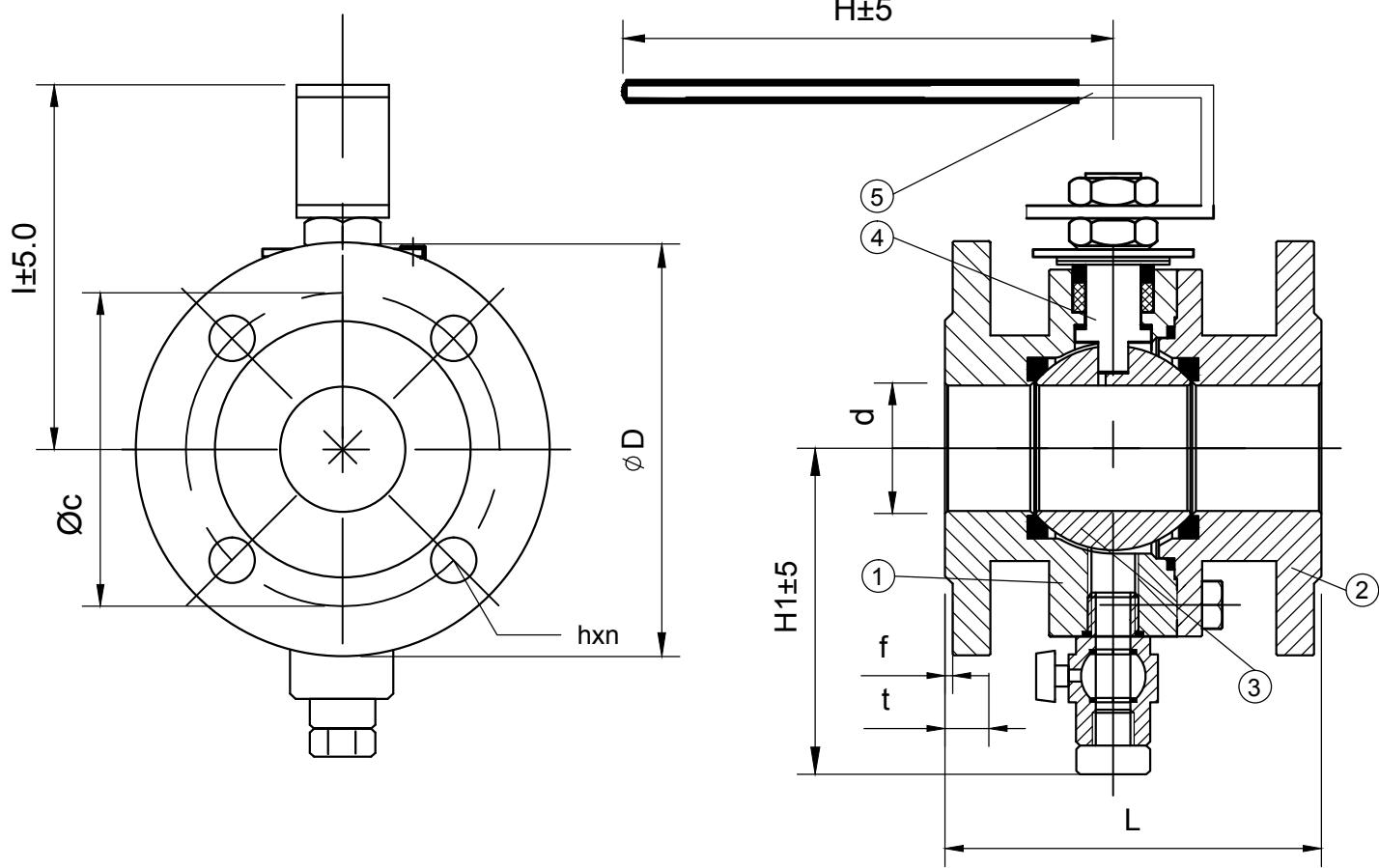
No.	Part	Material	
1	Body	CF8 / AISI 304	CF8M / AISI 316
2	Bonnet	CF8 / AISI 304	CF8M / AISI 316
3	Ball	W.Nr.1.4401 (AISI 316)	
4	Stem	W.Nr.1.4401 (AISI 316)	
5	Handle	W.Nr.1.4301 (AISI 304)	

Operating temperature AISI316: tmin = -50°C; tmax = +180 °C

Suitable for environment temperature t≥-50°C

DN mm	DN inch	d	D	C	L	H1	I	h	n	f	t	Weight
												kg
125	5"	125	250	210	325	600	228	18	8	3	22	50,5
150	6"	150	285	240	350	600	246	22	8	3	22	76,8
200	8"	200	340	295	400	800	310	22	12	3	24	125

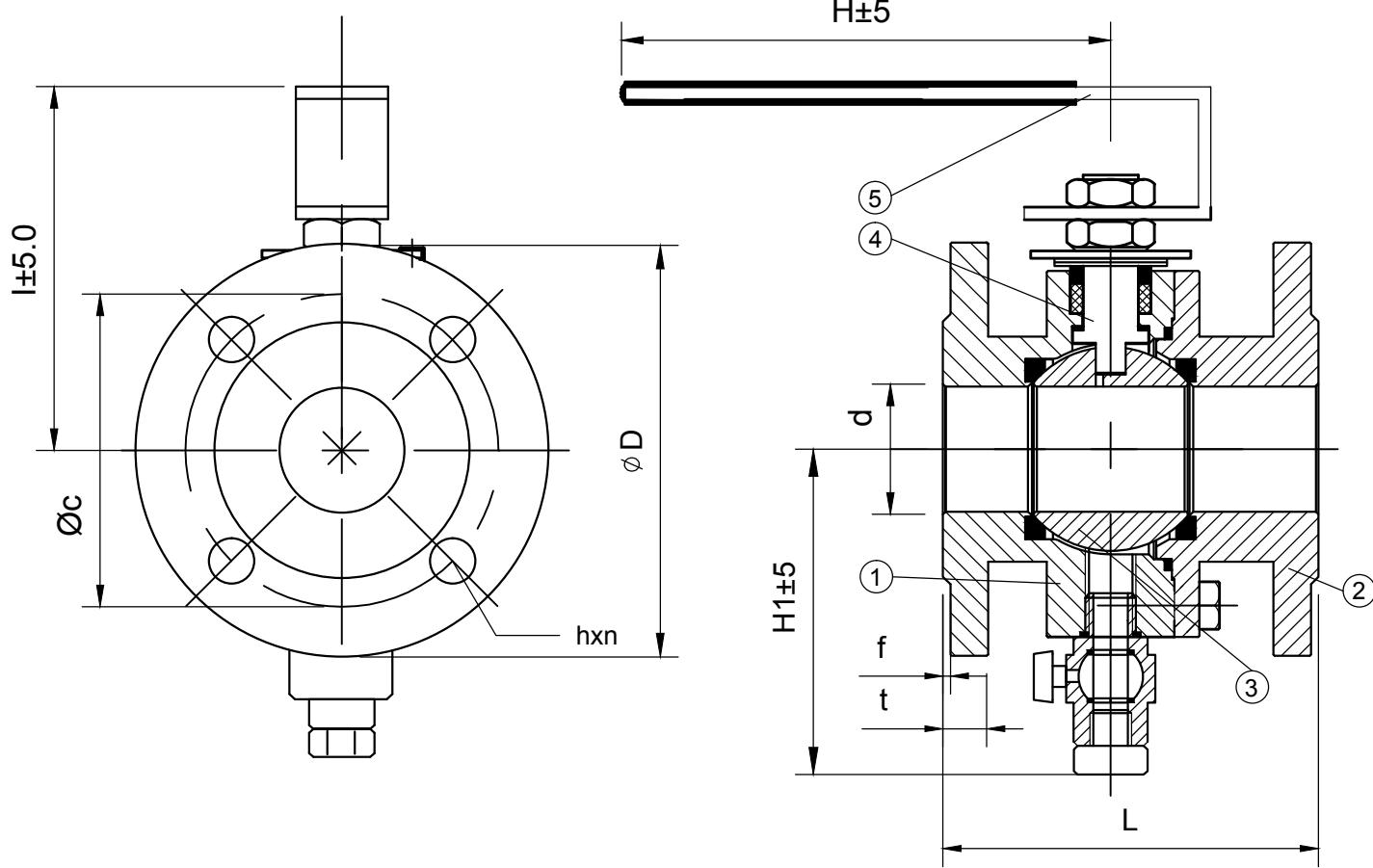
BRONZE BALL VALVE PN 16 DN 15-100, DRAIN



No.	Name	Material
1	Body	RG5 / RG7 / RG10
2	Bonnet	RG5 / RG7 / RG10
3	Ball (relief hole)	W.Nr. 1.4408 (CF8M)
4	Stem (anti-static)	W.Nr. 1.4401 (AISI 316)
5	Handle	W.Nr. 1.4301 (AISI 304)

DN mm / inch	DN				H	H1	I	L F4/F5	D	f	t	KG
	d	c	h	n								
15 1/2"	15	65	14	4	85	70	92	115	95	2	14	3,9
20 3/4"	20	75	14	4	85	75	104	120	105	2	16	5,2
25 1"	25	85	14	4	115	80	118	125	115	2	16	6,6
32 1-1/4"	32	100	18	4	115	90	122	130	140	2	16	8,3
40 1-1/2"	38	110	18	4	160	95	127	140	150	3	16	11,1
50 2"	50	125	18	4	160	105	156	150	165	3	18	14,5
65 2-1/2"	65	145	18	4	230	120	165	170	185	3	18	23,7
80 3"	80	160	18	8	235	125	190	180	200	3	20	27,8
100 4"	100	180	18	8	235	135	200	190	220	3	20	31

STAINLESS STEEL BALL VALVE #150 DN 15-100, DRAIN

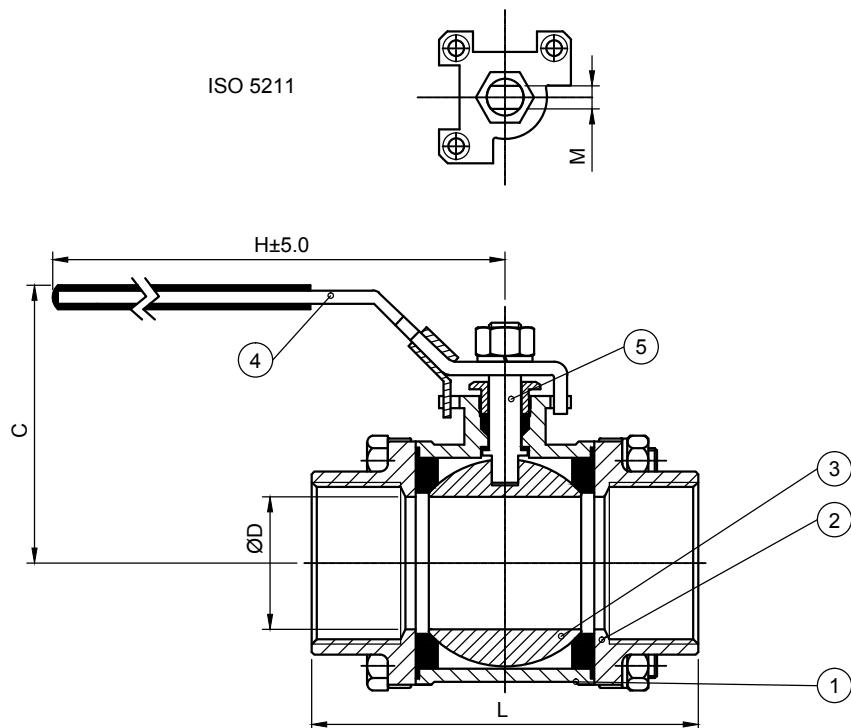


No.	Name	Material	
1	Body	WCB / A105	CF8M / AISI 316
2	Bonnet	WCB / A105	CF8M / AISI 316
3	Ball (relief hole)	W.Nr.1.4408 (CF8M)	
4	Stem (anti-static)	W.Nr.1.4401 (AISI 316)	
5	Handle	W.Nr.1.4301 (AISI 304)	

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

DN	d		H	H1	I	L	f	C	h	n	D	t	kg
	mm	inch											
15	1/2"	15	85	65	87	108	1,6	60,3	15,8	4	89	11,1	3
20	3/4"	20	85	70	94	117	1,6	69,8	15,8	4	98	12,7	5
25	1"	25	115	75	106	127	1,6	79,4	15,8	4	108	14,3	6,5
32	1-1/4"	32	115	80	116	140	1,6	88,9	15,8	4	117	15,7	8
40	1-1/2"	38	160	85	120	165	1,6	98,4	15,8	4	127	17,5	13
50	2"	50	160	95	147	178	1,6	120,6	19	4	150	19,1	18
65	2-1/2"	65	230	115	165	190	1,6	139,7	19	4	178	22,3	23
80	3"	80	235	120	178	203	1,6	152,4	19	4	190	23,9	32
100	4"	100	235	140	192	229	1,6	190,5	19	8	229	23,9	40

THREE PIECE BALL VALVE THREADED PN 40/63



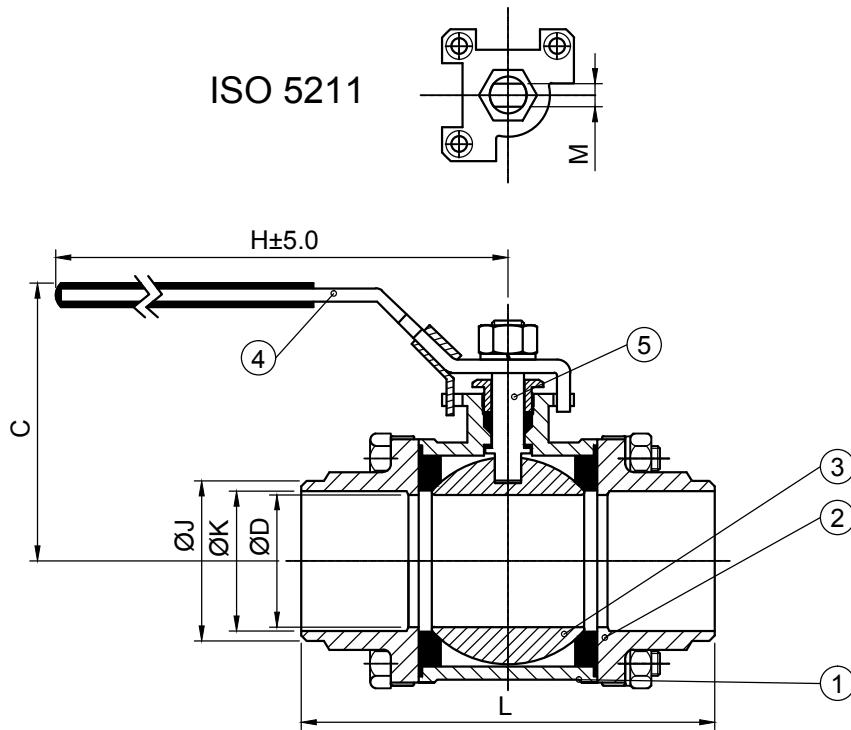
No.	Name	Material acc. to EN NORM (DIN / ASTM)	
1	Body	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
2	Bonnet	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
3	Ball	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	
4	Handle	X5CrNi 18-10 (W.Nr. 1.4301 / AISI 304)	
5	Stem (anti-static)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	

DIMENSION							
DN		D	L	C	H	M	ISO 5211
mm	inch						KG
10	1/4	10,6	50	51	105	5	F04 0,45
12	3/8	12,7	60	51	105	5	F04 0,40
15	1/2	15	75	61	105	6,5	F04 0,60
20	3/4	20	80	66	125	6,5	F04 0,71
25	1	25	90	78	152	8	F04 1,08
32	1 1/4	32	110	82	152	8	F04 1,70
40	1 1/2	38	120	95	191	9	F05 2,48
50	2	49	140	104	191	9	F05 3,45
65	2 1/2	65	185	148	255	12	F07 8,05
80	3	80	205	155	255	12	F07 10,3
100	4	102	240	184	290	16	F10 20,2

FEMALE THREAD: NPT or BSPT or ISO 228

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

THREE PIECE BALL VALVE BW PN 40/63

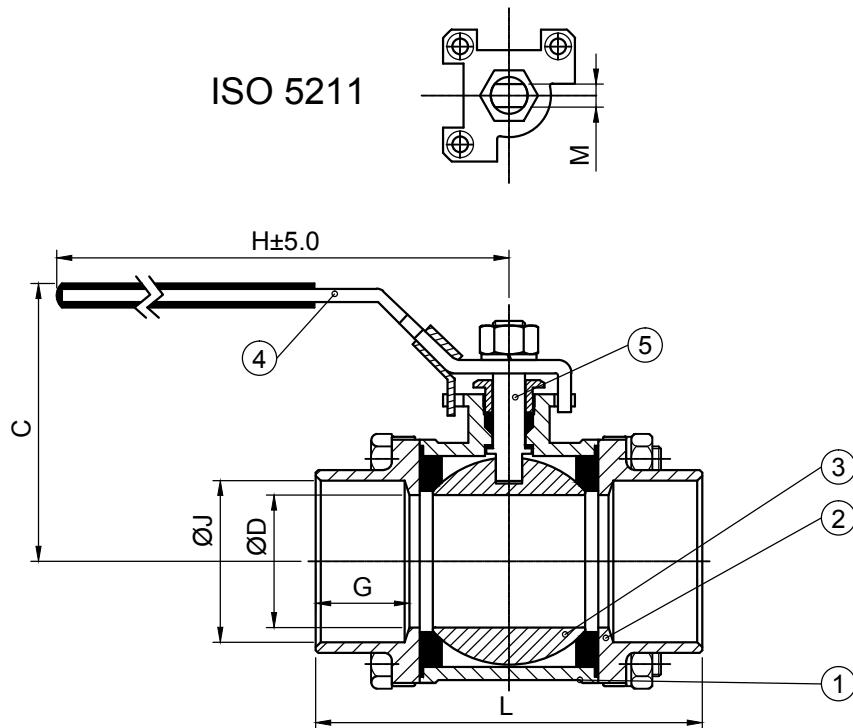


No.	Part	Material acc. to EN NORM (DIN / ASTM)	
1	Body	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
2	Bonnet	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
3	Ball	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	
4	Handle	X5CrNi 18-10 (W.Nr. 1.4301 / AISI 304)	
5	Stem (anti-static)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	

DIMENSION										
DN		D	L	C	H	J	K	M	ISO 5211	KG
mm	inch									
10	1/4	10,6	70	51	105	13,5	10,6	5	F04	0,40
12	3/8	12,7	70	51	105	17,2	12,7	5	F04	0,43
15	1/2	15	75	61	105	21,3	16,1	6,5	F04	0,61
20	3/4	20	90	66	125	26,9	21,4	6,5	F04	0,65
25	1	25	100	78	152	33,7	27,2	8	F04	1,11
32	1 1/4	32	110	82	152	42,4	35,1	8	F04	1,70
40	1 1/2	38	125	95	191	48,3	40,5	9	F05	2,42
50	2	49	150	104	191	60,3	52,7	9	F05	3,59
65	2 1/2	65,6	190	148	255	76,1	65,6	12	F07	7,85
80	3	80,5	220	155	255	88,9	80,5	12	F07	10,75
100	4	100	240	184	290	114,3	102,3	16	F10	20,9

Operating temperature AISI316: $t_{min} = -50^{\circ}\text{C}$; $t_{max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

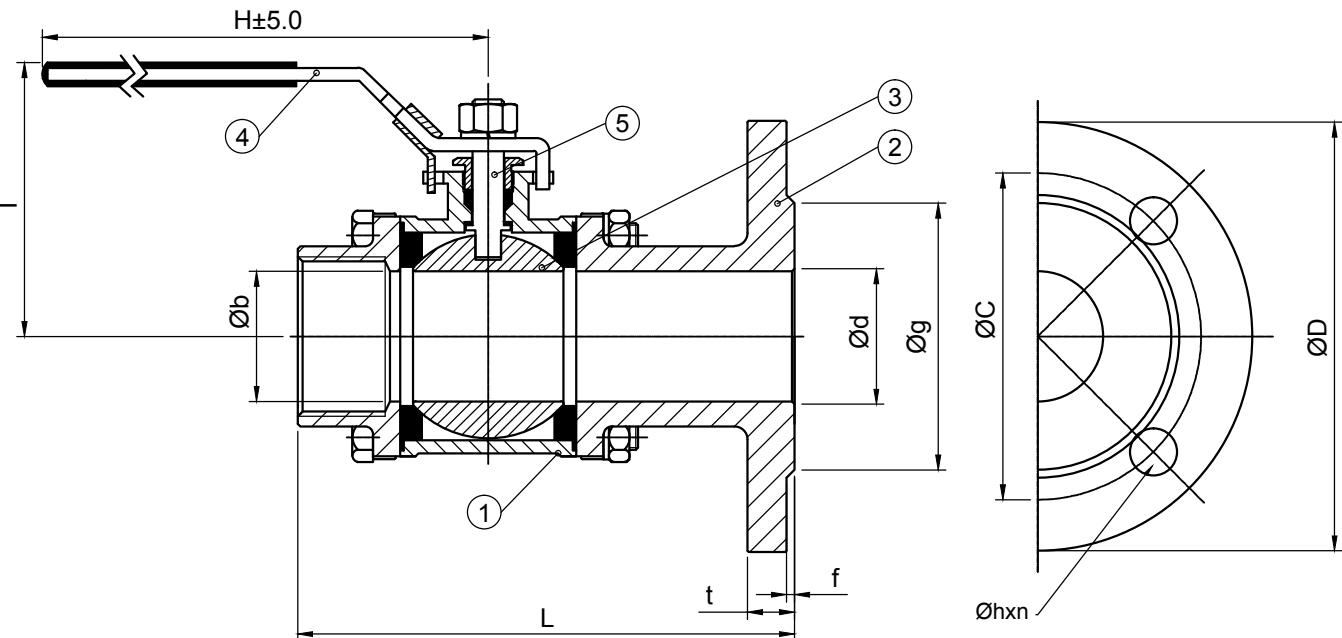
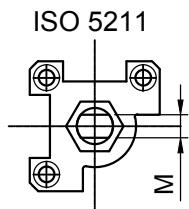
THREE PIECE BALL VALVE SW PN 40/63



Position	Name	Material acc. to EN NORM (DIN / ASTM)	
1	Body	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
2	Bonnet	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
3	Ball	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	
4	Handle	X5CrNi 18-10 (W.Nr. 1.4301 / AISI 304)	
5	Stem (anti-static)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	

DIMENSION										
DN		D	L	C	H	J	G	M	ISO 5211	KG
mm	inch									
10	1/4	10,6	50	51	105	14,4	10	5	F04	0,45
12	3/8	12,7	60	51	105	17,8	10	5	F04	0,40
15	1/2	15	75	61	105	22	10	6,5	F04	0,60
20	3/4	20	80	66	125	27,3	13	6,5	F04	0,71
25	1	25	90	78	152	34,1	13	8	F04	1,08
32	1 1/4	32	110	82	152	42,8	13	8	F04	1,70
40	1 1/2	38	120	95	191	48,9	13	9	F05	2,48
50	2	49	140	104	191	61,4	13	9	F05	3,45
65	2 1/2	65	185	148	255	77,1	16	12	F07	8,05
80	3	80	205	155	255	90	16	12	F07	10,3
100	4	102	240	184	290	116	20	16	F10	20,2

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

THREE PIECE BALL VALVE FLANGE/THREAD PN 16/40

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

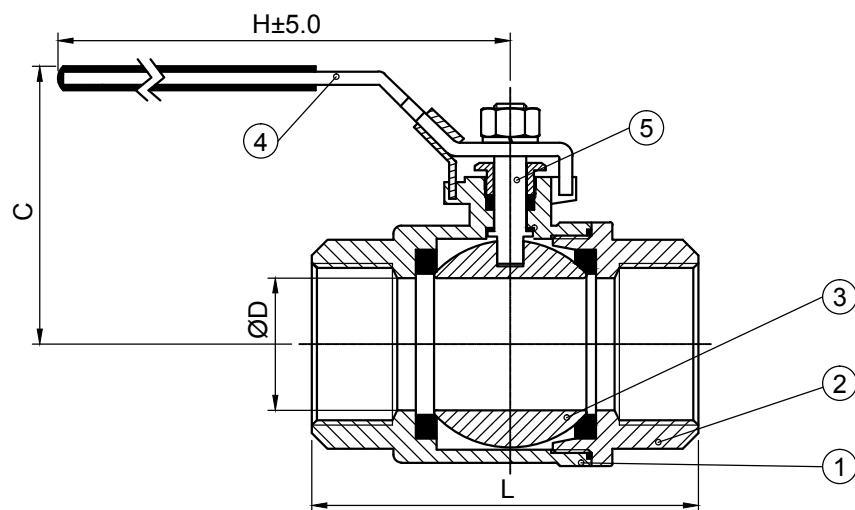
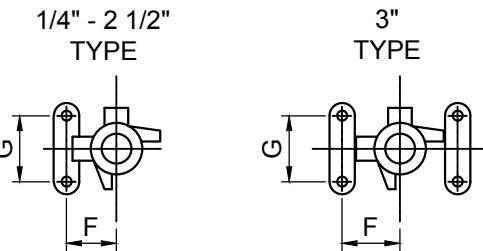
FEMALE THREAD: NPT or BSPT or ISO 228

No.	Part	Material acc. to EN NORM (DIN / ASTM)	
1	Body	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
2	Bonnet	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
3	Ball	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	
4	Handle	(W.Nr. 1.4301 / AISI 304) (W.Nr. 1.4401 / AISI 316)	
5	Stem (anti-static)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	

DIMENSION PN 16															
DN mm inch	b	d	D	C	g	t	f	h	n	H	I	L	M	ISO 5211	Weight kg
15 1/2	15	15	95	65	45	14	2	14	4	137	80	102,5	6,5	F04	1,35
20 3/4	20	20	105	75	58	16	2	14	4	137	85	115	6,5	F04	1,61
25 1	25	25	115	85	68	16	2	14	4	167	92	125	8	F04	2,63
32 1 1/4	32	32	140	100	78	16	2	18	4	167	96	145	8	F04	3,56
40 1 1/2	38	40	150	110	88	16	3	18	4	228	112	160	9	F05	4,73
50 2	49	50	165	125	102	18	3	18	4	228	121	185	9	F05	6,34
65 2 1/2	65	65	185	145	122	18	3	18	4	287	179	273,5	12	F07	12,21
80 3	80	80	200	160	138	20	3	18	8	287	186	257,5	12	F07	15,4
100 4	102	100	220	180	158	20	3	18	8	282	184	295	16	F10	28,2

DIMENSION PN 40															
DN mm inch	b	d	D	C	g	t	f	h	n	H	I	L	M	ISO 5211	Weight kg
15 1/2	15	15	95	65	45	16	2	14	4	137	80	102,5	6,5	F04	1,35
20 3/4	20	20	105	75	58	18	2	14	4	137	85	115	6,5	F04	1,61
25 1	25	25	115	85	68	18	2	14	4	167	92	125	8	F04	2,63
32 1 1/4	32	32	140	100	78	18	2	18	4	167	96	145	8	F04	3,56
40 1 1/2	38	40	150	110	88	18	3	18	4	228	112	160	9	F05	4,73
50 2	49	50	165	125	102	18	3	20	4	228	121	185	9	F05	6,34
65 2 1/2	65	65	185	145	122	18	3	22	8	287	179	273,5	12	F07	12,21
80 3	80	80	200	160	138	20	3	24	8	287	186	257,5	12	F07	15,4
100 4	102	100	235	190	162	24	3	24	8	282	184	295	16	F10	26,4

BALL VALVE THREADED F/F PN 40/130

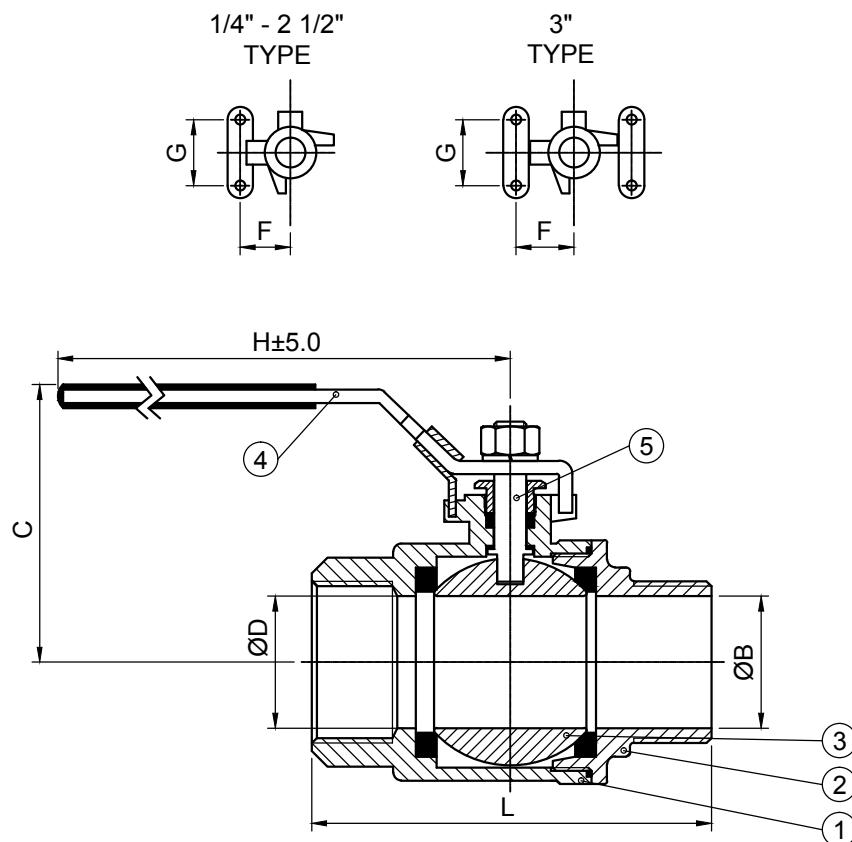


DIMENSIONS								
DN		D	L	C	H	F	G	KG
mm	inch							
10	1/4	11,5	50	54,5	105	12,7	28,5	0,30
12	3/8	12,5	60	54,5	105	12,7	28,5	0,30
15	1/2	15	75	57	105	12,7	28,5	0,40
20	3/4	20	80	67,5	125	22,1	35	0,60
25	1	25	90	72,5	153	22,1	35	0,95
32	1 1/4	32	110	84,3	153	23,6	38	1,45
40	1 1/2	38	120	96,5	190	23,6	38	2,64
50	2	49	140	102,5	190	28,9	38	3,35
65	2 1/2	65	185	140	255	35	55	7,45
80	3	80	205	156	255	37,5	72	11,45

FEMALE THREAD: NPT or BSPT or ISO 228

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

BALL VALVE THREADED M/F PN 40/130



No.	Part	Material acc. to EN NORM (DIN / ASTM)	
1	Body	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
2	Cap	GP240GH (W.Nr. 1.0619) (ASTM A216-WCB)	GX5CrNiMo 19-11-2 (W.Nr. 1.4408) (ASTM A351-CF8M)
3	Ball (relief hole)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	
4	Handle	X5CrNi 18-10 (W.Nr. 1.4301 / AISI 304)	
5	Stem (anti-static)	X5CrNiMo 17-12-2 (W.Nr. 1.4401 / AISI 316)	

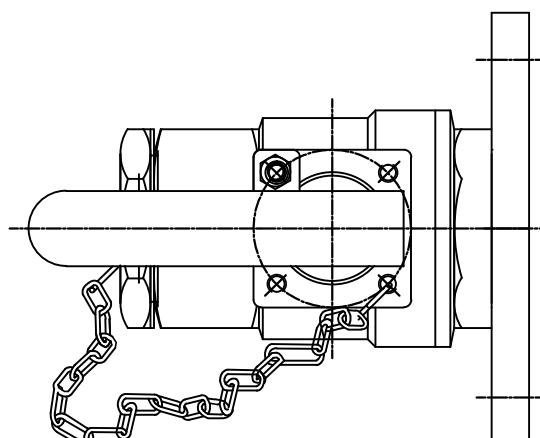
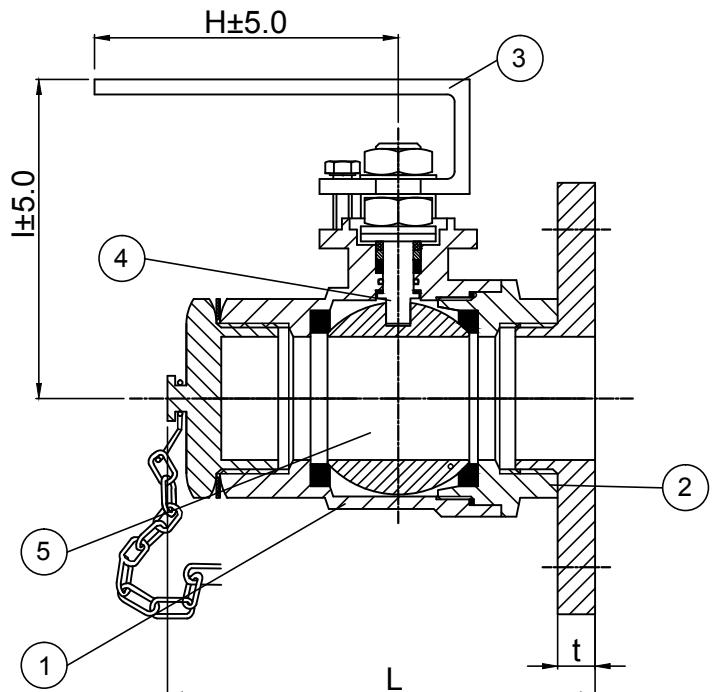
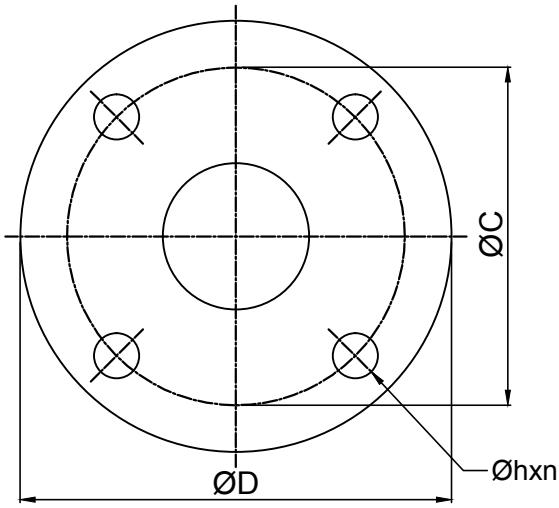
DIMENSIONS									
DN		B	D	L	C	H	F	G	KG
mm	inch								
10	1/4	9	11,5	60,5	54,5	105	12,7	28,5	0,35
12	3/8	12	12,5	66,3	54,5	105	12,7	28,5	0,35
15	1/2	15	15	82,7	57	105	12,7	28,5	0,45
20	3/4	20	20	91,1	67,5	125	22,1	35	0,65
25	1	25	25	101,5	72,5	153	22,1	35	1,1
32	1 1/4	32	32	122,5	84,3	153	23,6	38	1,6
40	1 1/2	38	38	130,9	96,5	190	23,6	38	2,85
50	2	49	49	146,8	102,5	190	28,9	38	3,70
65	2 1/2	65	65	201,1	140	255	35	55	7,95
80	3	80	80	220,1	156	255	37,5	72	12

MALE AND FEMALE THREAD: NPT or BSPT or ISO 228

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +180^{\circ}\text{C}$

Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

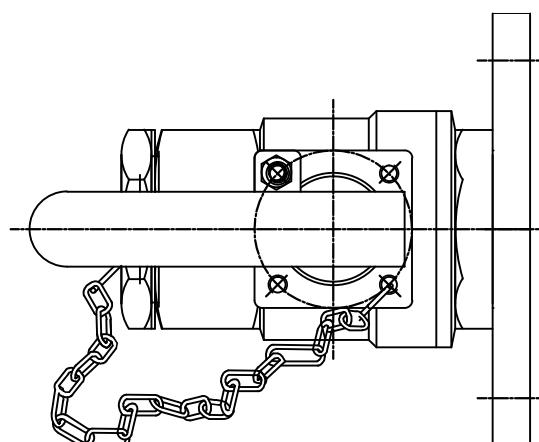
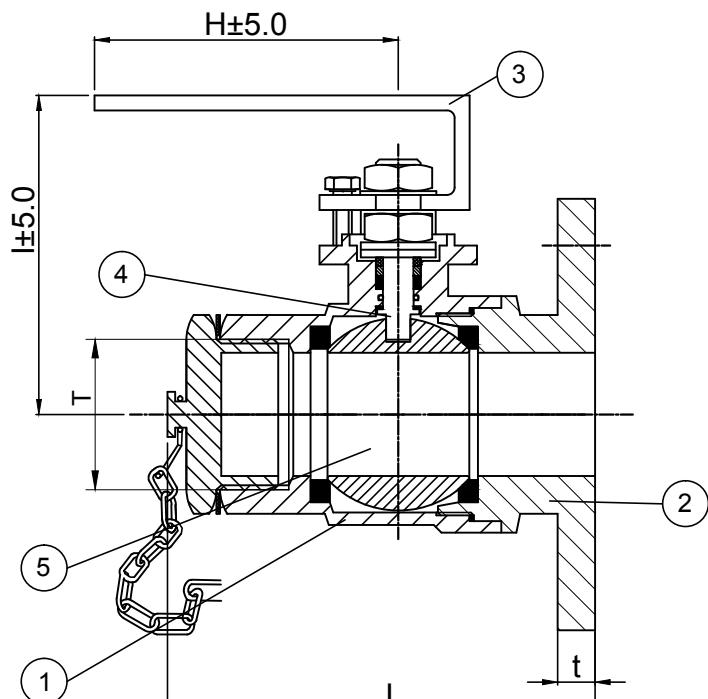
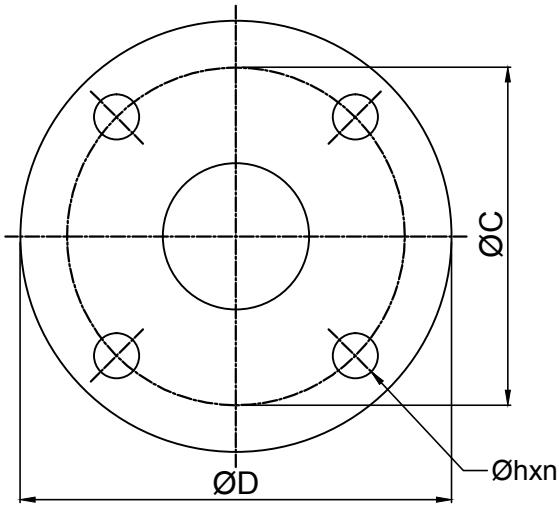
BALL VALVE (DRAIN) FLANGED PN16



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Handle	W.Nr. 1.4301
4	Stem	W.Nr. 1.4401
5	Ball (relife hole)	W.Nr. 1.4301 / W.Nr. 1.4401

MARK	DN 1/2"	DN 3/4"	DN 1"	DN 1 1/4"
DN mm	15	20	25	32
D mm (PN 16)	95	105	115	140
C mm	65	75	85	100
h mm	14	14	14	18
n	4	4	4	4
t mm	10	10	10	10
L mm	85	95	110	120
I mm	65	70	75	85
H mm	82	82	85	85
Weight kg	0,9	1,4	1,9	2,5

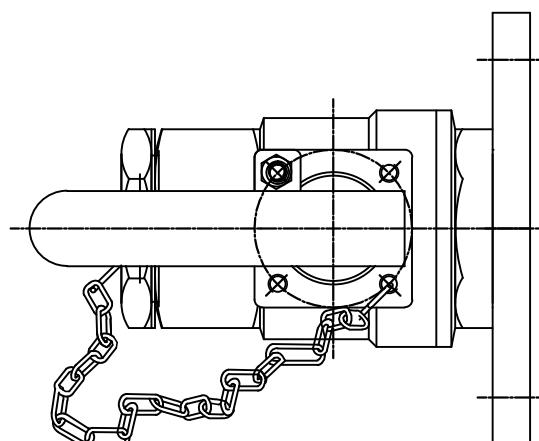
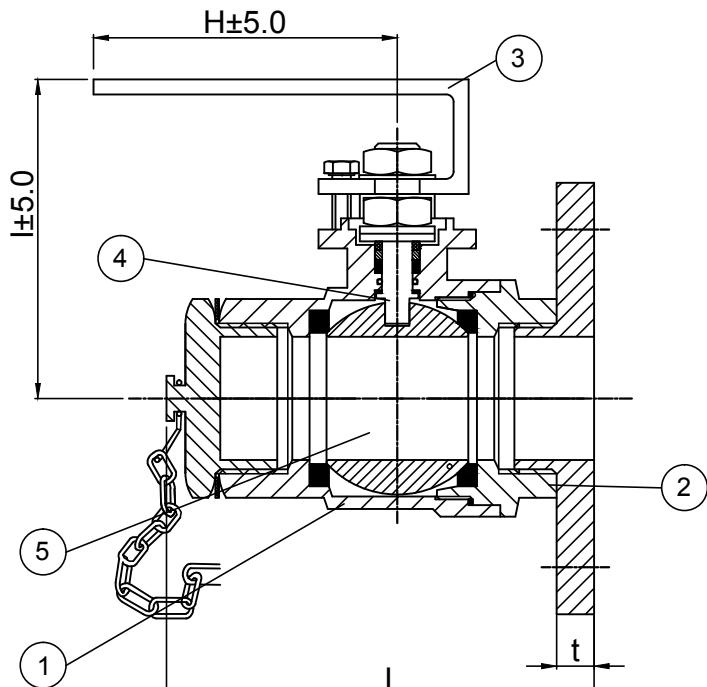
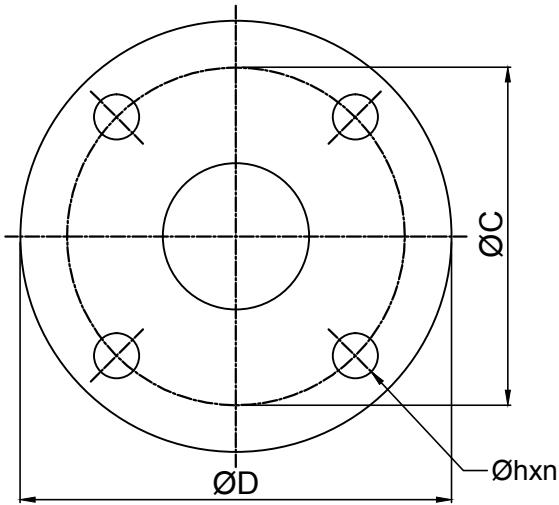
BALL VALVE (DRAIN) FLANGED PN 6



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Handle	W.Nr. 1.4301
4	Stem	W.Nr. 1.4401
5	Ball (relife hole)	W.Nr. 1.4301 / W.Nr. 1.4401

DN MARK	DN mm	1/2"	3/4"	1"	1"1/4"
D mm (PN 6)	80	90	100	120	
C mm (PN 6)	55	65	75	90	
T	1/2" G	3/4" G	1" G	1"1/4" G	
h mm	11	11	11	14	
n	4	4	4	4	
t mm	10	10	10	10	
H mm	82	82	85	85	
L mm	85	95	110	120	
I mm	65	70	75	80	
Weight kg	0,9	1,4	1,8	2,4	

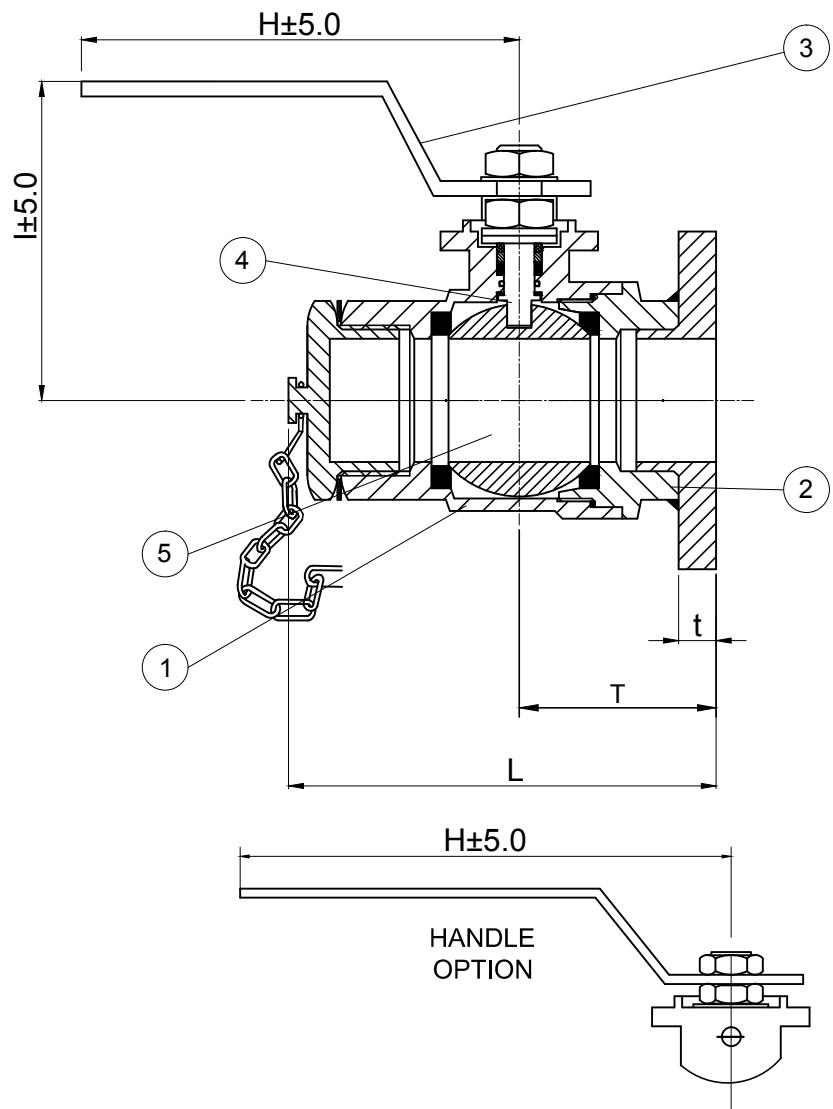
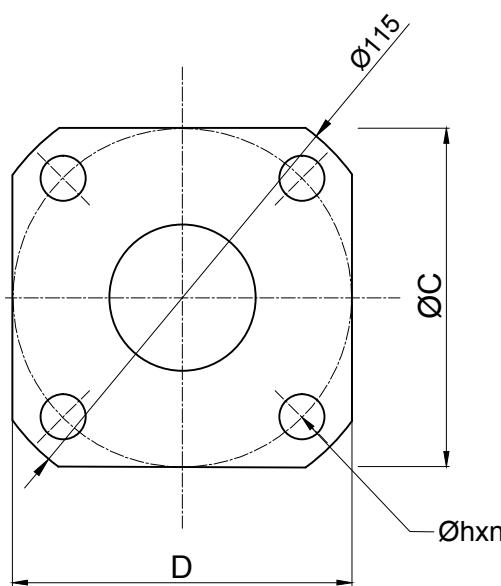
BALL VALVE (DRAIN) FLANGED CLASS 150



No.	Part	Material
1	Body	W.Nr. 1.4308 / W.Nr. 1.4408
2	Bonnet	W.Nr. 1.4308 / W.Nr. 1.4408
3	Handle	W.Nr. 1.4301
4	Stem	W.Nr. 1.4401
5	Ball (relife hole)	W.Nr. 1.4301 / W.Nr. 1.4401

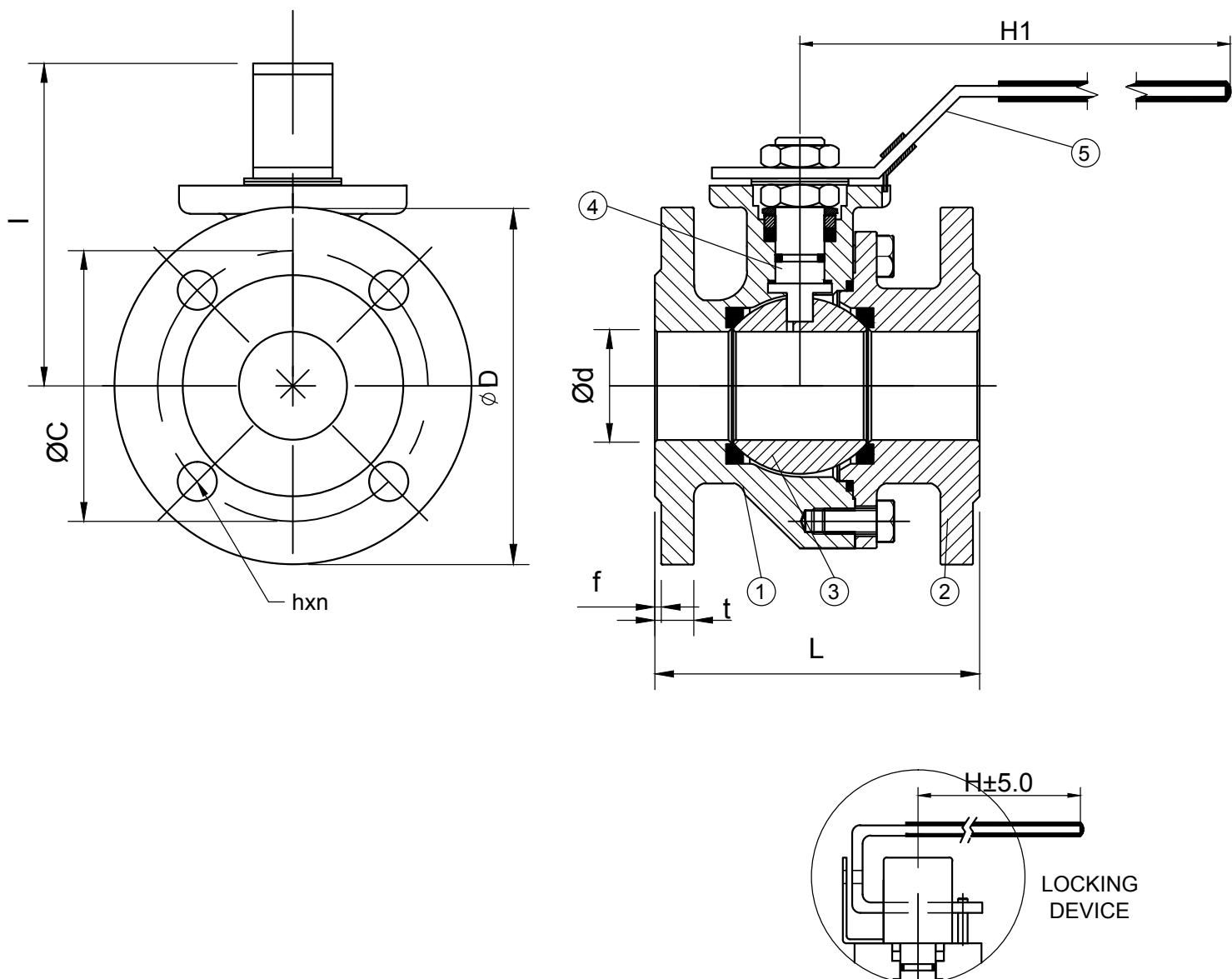
DN MARK	DN mm	1/2"	1"
D mm (#150)	89	108	
C mm	60,3	79,4	
h mm	15,8	15,8	
n	4	4	
t mm	10	10	
L mm	85	100	
I mm	65	80	
H mm	82	90	
Weight kg	1	1,8	

BALL VALVE (DRAIN) FLANGED PN 6



No.	Part	Material
1	Body	W.Nr. 1.4408 (AISI 316)
2	Bonnet	W.Nr. 1.4408 (AISI 316)
3	Handle	AISI 430/ AISI 304
4	Stem	W.Nr. 1.4404 (AISI 316)
5	Ball (relife hole)	W.Nr. 1.4404 (AISI 316)

MARK	DN	1"1/4
DN mm	32	
D mm (PN 6)	90	
C mm	90	
h mm	12	
n	4	
t mm	10	
L mm	120	
I mm	85	
H mm	175	
T mm	60	
Weight kg	2,5	

BALL VALVE FLANGED CL150 DN 15-100 (1/2" - 4")

No.	Part		Material									
1	Body		CF8 / AISI 304				CF8M / AISI 316					
2	Bonnet		CF8 / AISI 304				CF8M / AISI 316					
3	Ball						W.Nr.1.4401 (AISI 316)					
4	Stem						W.Nr.1.4401 (AISI 316)					
5	Handle						W.Nr.1.4301 (AISI 304)					

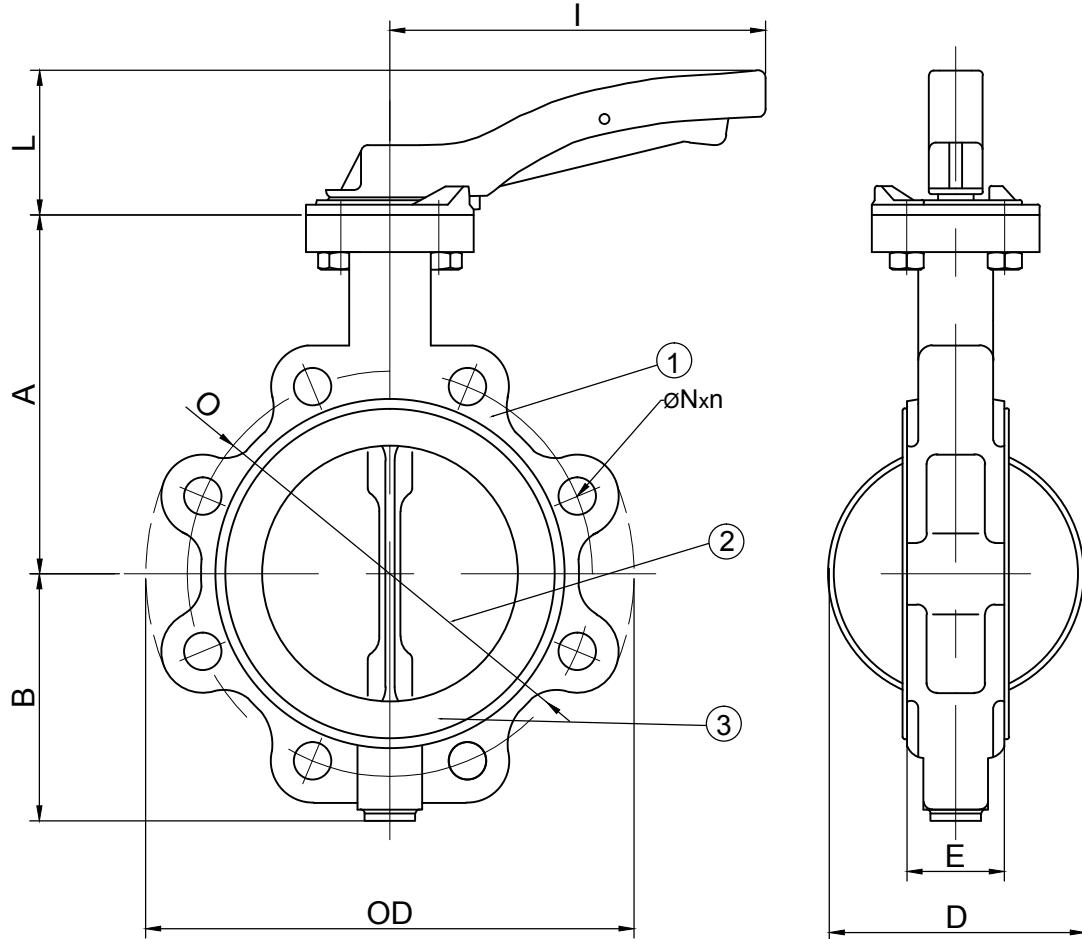
Operating temperature AISI316: tmin = -50°C; tmax = +180 °C
Suitable for environment temperature t≥-50°C

DN	d	D	C	H	L	H1	I	h	n	f	t
mm	inch										
15	1/2"	15	89	60,5	85	108	117	82	15	4	2
20	3/4"	20	98	70	85	117	117	87	15	4	2
25	1"	25	108	79,5	115	127	164	90	15	4	2
32	1-1/4"	32	117	89	115	140	164	100	15	4	2
40	1-1/2"	40	127	98,5	160	165	203	116	15	4	2
50	2"	50	152	120,5	160	178	203	125	19	4	2
65	2-1/2"	65	178	139,5	230	190	255	154	19	4	2
80	3"	80	190	152,5	235	203	255	164	19	4	2
100	4"	100	229	190,5	235	229	302	180	19	8	24



BUTTERFLY VALVE

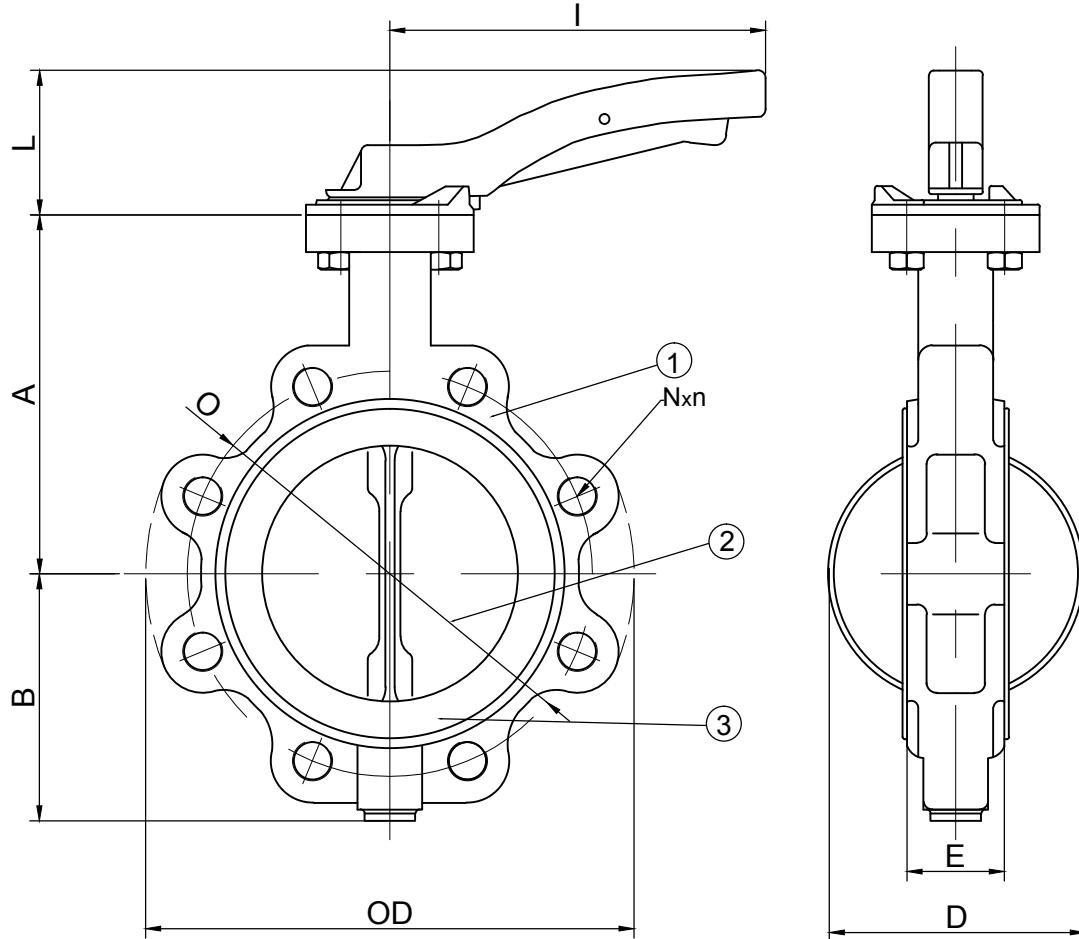
LUG BUTTERFLY VALVE



No.	Part	Material
1	Body	GGG 40 / A216 WCB / A351 CF8M
2	Disc	GGG 40 / A351 CF8M / Alu-bronze
3	Liner	NBR (Buna) / EPDM/ Viton

PN10 & PN16								PN10			PN16			
DN	A	B	I	D	E	OD	L	kg	N	n	O	N	n	O
40	130	75	220	49	33	114	67	3,6	18	4	110	18	4	110
50	138	81	220	55	43	119	67	4,3	18	4	125	18	4	125
65	144	98	220	68	46	170	67	5,9	18	8	145	18	8	145
80	158	110	220	81	46	182	67	6,7	18	8	160	18	8	160
100	173	128	220	101	52	215	67	8,7	18	8	180	18	8	180
125	186	140	275	126	56	245	67	10,4	18	8	210	18	8	210
150	202	155	275	150	56	275	67	12,2	22	8	240	22	8	240
200	240	190	340	200	60	330	76	28	22	8	295	22	12	295
250	270	220	340	250	68	395	76	35	22	12	350	26	12	355
300	300	247	340	298	78	465	76	50	22	12	400	26	12	410

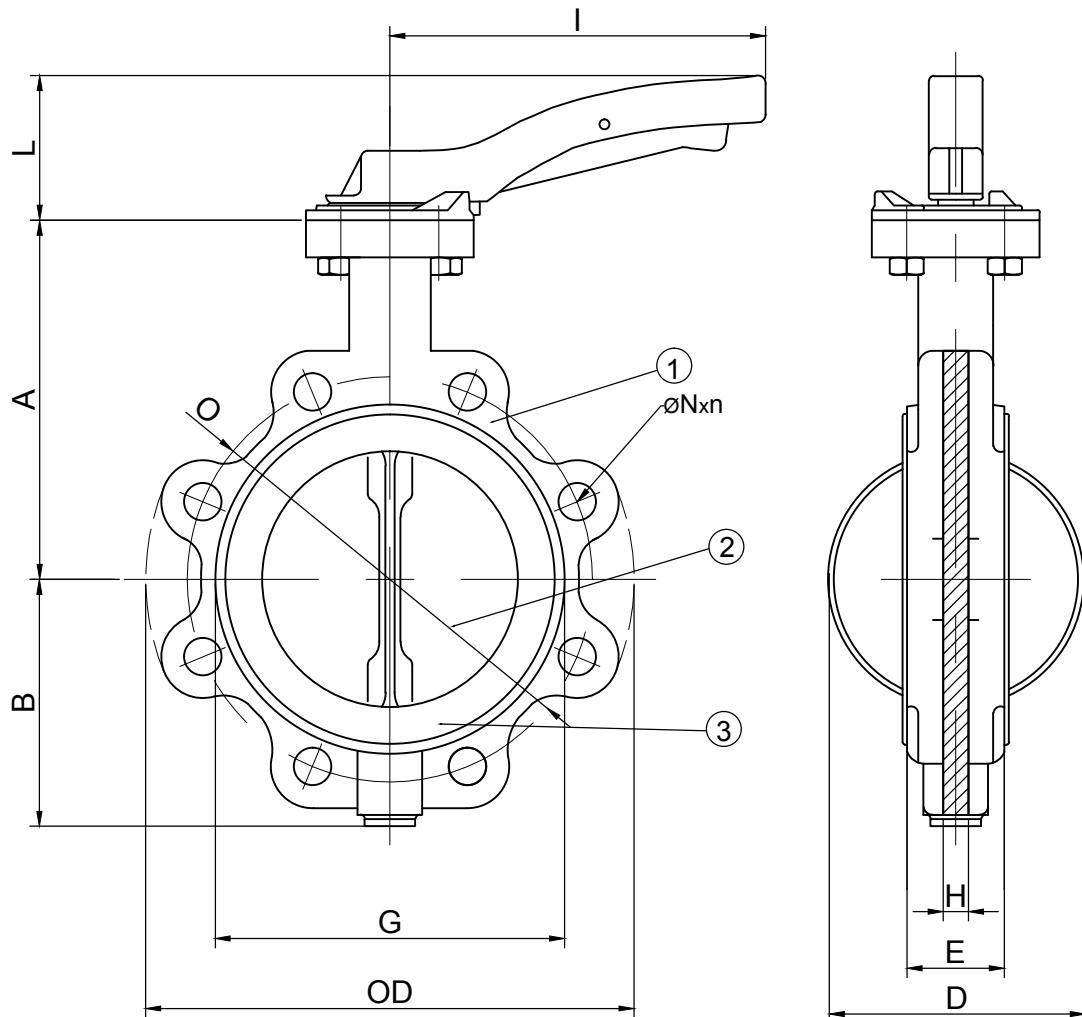
LUG BUTTERFLY VALVE



No.	Part	Material
1	Body	GGG 40 / A216 WCB / A351 CF8M
2	Disc	GGG 40 / A351 CF8M / Alu-bronze
3	Liner	NBR (Buna) / EPDM / Viton

PN10 & PN16								PN10			PN16			
DN	A	B	I	D	E	OD	L	kg	N	n	O	N	n	O
40	130	75	220	49	33	114	67	3,6	M16	4	110	M16	4	110
50	138	81	220	55	43	119	67	4,3	M16	4	125	M16	4	125
65	144	98	220	68	46	170	67	5,9	M16	8	145	M16	8	145
80	158	110	220	81	46	182	67	6,7	M16	8	160	M16	8	160
100	173	128	220	101	52	215	67	8,7	M16	8	180	M16	8	180
125	186	140	275	126	56	245	67	10,4	M16	8	210	M16	8	210
150	202	155	275	150	56	275	67	12,2	M20	8	240	M20	8	240
200	240	190	340	200	60	330	76	28	M20	8	295	M20	12	295
250	270	220	340	250	68	395	76	35	M20	12	350	M24	12	355
300	300	247	340	298	78	465	76	50	M20	12	400	M24	12	410

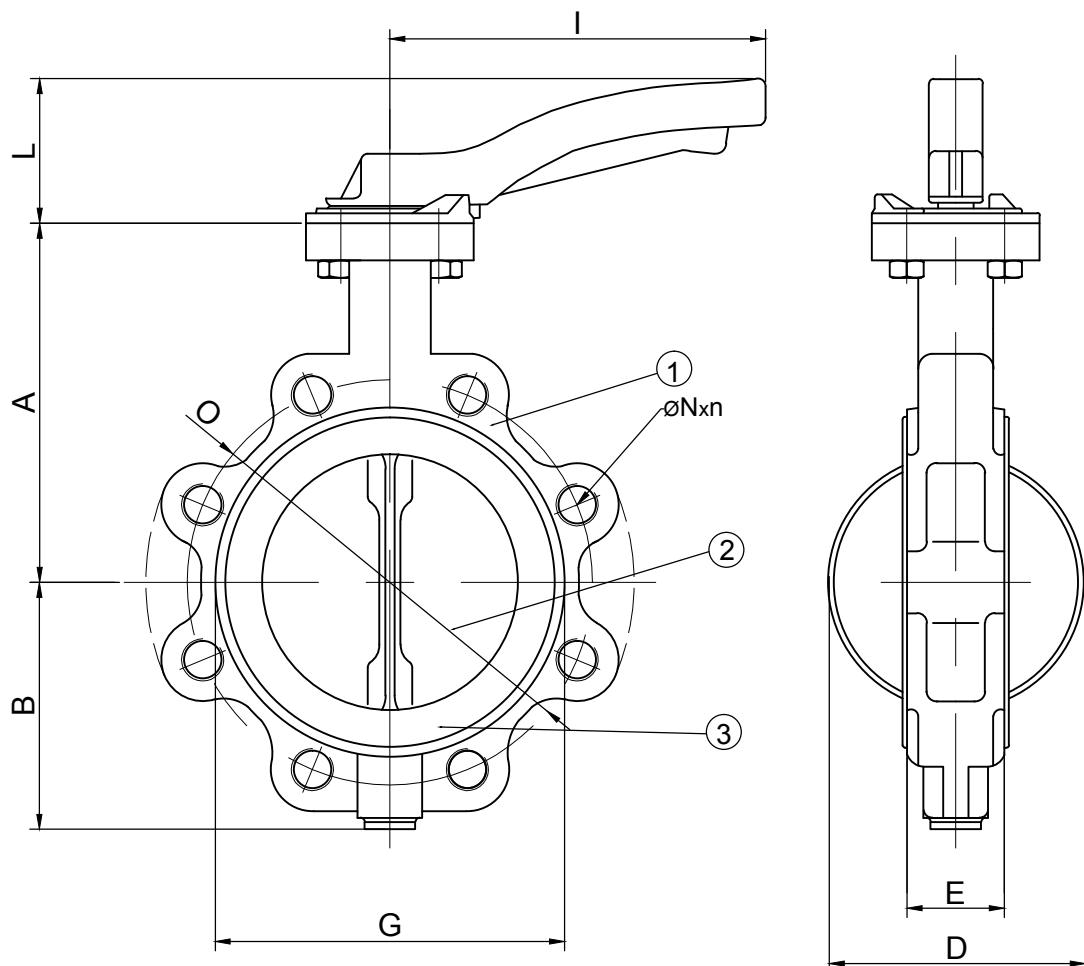
LUG BUTTERFLY VALVE



No.	Part	Material
1	Body	GGG 40 / A216 WCB / A351 CF8M
2	Disc	GGG 40 / A351 CF8M
3	Liner	NBR (Buna) / EPDM/ Viton

PN10 & PN16								PN10			PN16			PN10/PN16		
DN	A	B	I	D	E	OD	L	kg	N	n	O	N	n	O	G	H
100	173	128	220	101	52	215	67	8,7	18	8	180	18	8	180	150	19
125	186	140	275	126	56	245	67	10,4	18	8	210	18	8	210	180	23
150	202	155	275	150	56	275	67	12	22	8	240	22	8	240	208	20
200	240	190	340	200	60	330	76	28	22	8	295	22	12	295	258	14
250	270	220	340	250	68	395	76	34	22	12	350	26	12	355	315	22

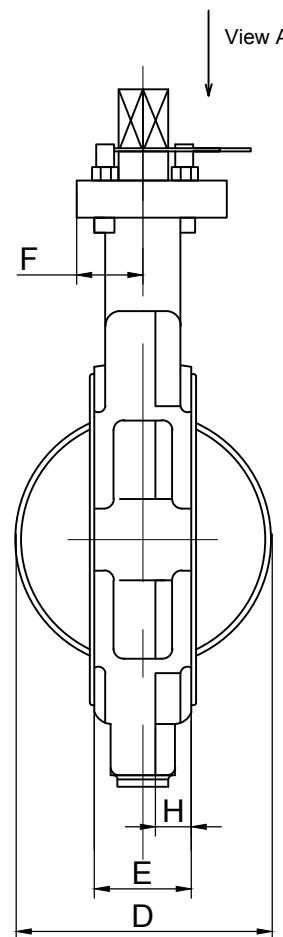
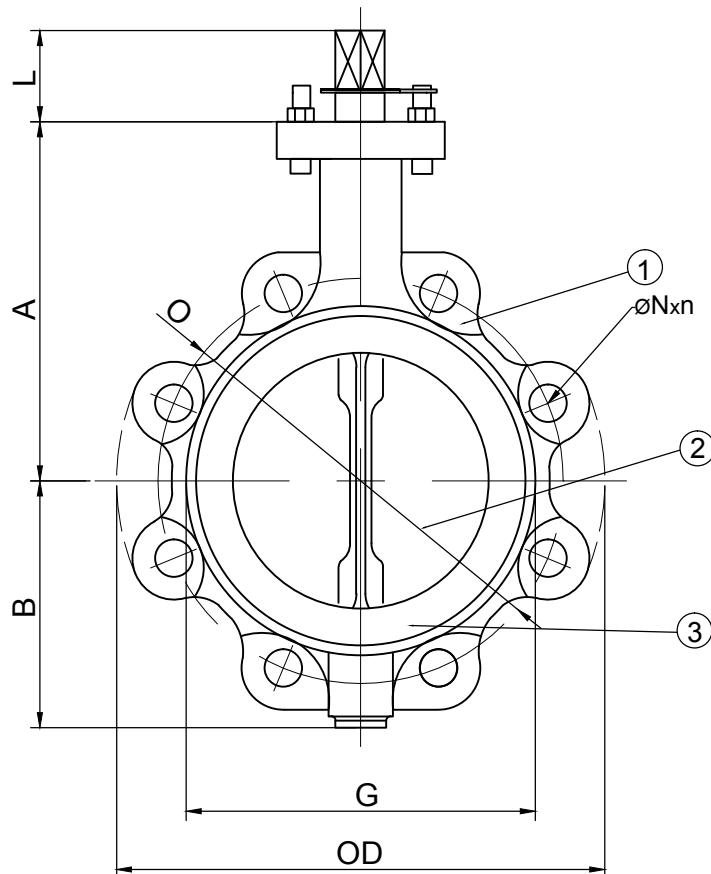
LUG BUTTERFLY VALVE #150



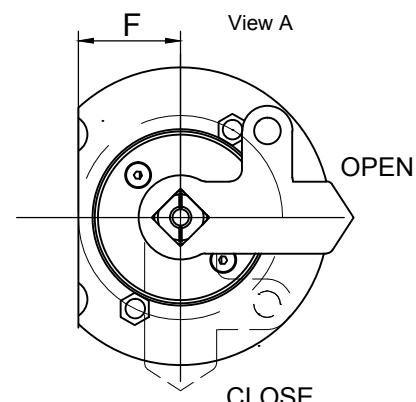
No.	Part	Material
1	Body	GGG 40 / A216 WCB / A351 CF8M
2	Disc	GGG 40 / A351 CF8M / Alu-bronze
3	Liner	NBR (Buna) / EPDM / Viton

ANSI 150									
DN	A	B	I	D	E	L	kg	N	n
50	138	81	220	55	43	67	4,3	5/8-11	4
65	144	98	220	68	46	67	5,9	5/8-11	4
80	158	110	220	81	46	67	6,7	5/8-11	4
100	173	128	220	101	52	67	8,7	5/8-11	8
125	186	140	275	126	56	67	10,4	3/4-10	8
150	202	155	275	150	56	67	12,2	3/4-10	8
200	240	190	340	200	60	76	28	3/4-10	8
250	270	220	340	250	68	76	35	7/8-9	12
300	300	247	340	298	78	76	50	7/8-9	12

LUG BUTTERFLY VALVE

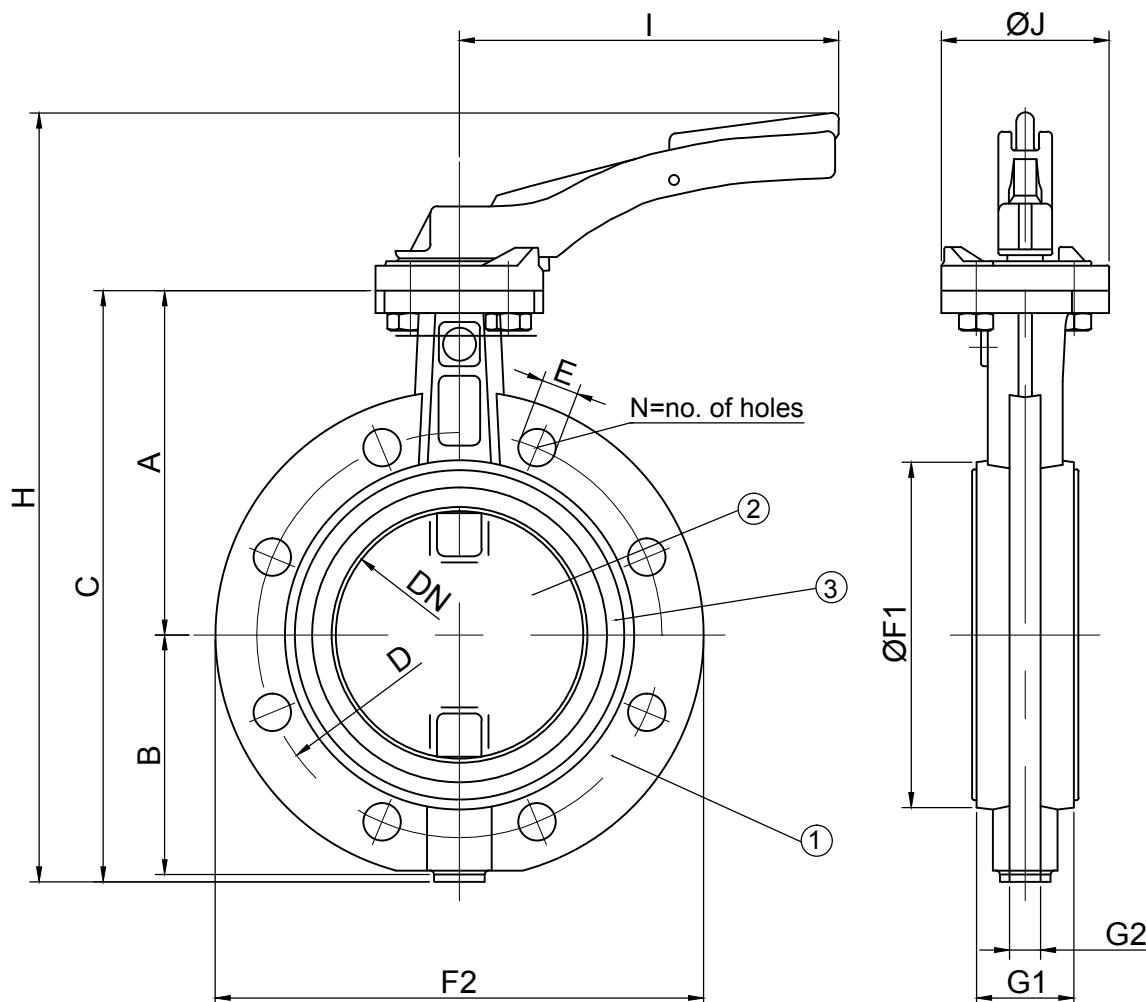


No.	Part	Material
1	Body	GGG 40 / A216 WCB / A351 CF8M
2	Disc	GGG 40 / A351 CF8M
3	Liner	NBR (Buna) / EPDM / Viton



PN10 & PN16									PN10			PN16			PN10/16
DN	A	B	D	E	F	OD	L	kg	N	n	O	N	n	O	H
100	173	128	101	52	26	215	34	8,7	18	8	180	18	8	180	16
125	186	140	126	56	30	245	34	10,4	18	8	210	18	8	210	21
150	202	155	150	56	30	275	34	12,2	22	8	240	22	8	240	23
200	240	190	200	60	30	330	38	28	22	8	295	22	12	295	23
250	270	220	250	68	34	395	38	34	22	12	350	26	12	355	23
300	300	247	298	78	39	465	38	50	22	12	400	26	12	410	23

CENTRE FLANGED BUTTERFLY VALVE

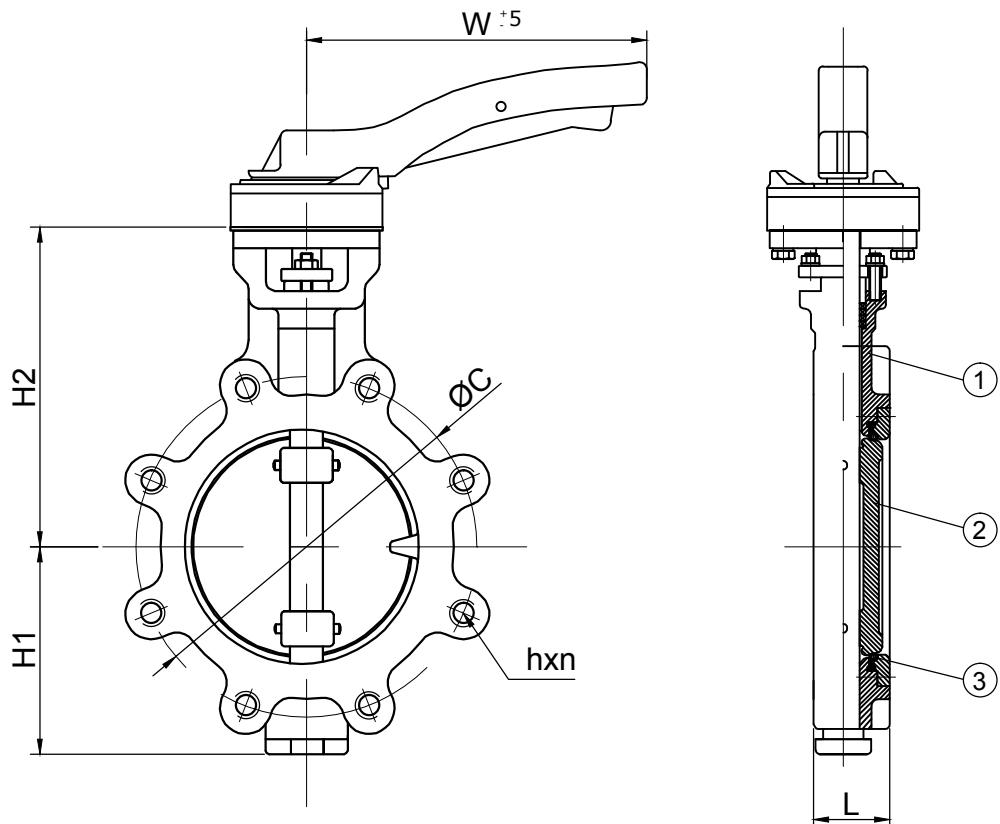


No.	Part	Material
1	Body	GG-25 / GGG-40 / GGG-40.3
2	Disc	Steel St. 52.3 / Stainless steel / Aluminium bronze / Halar
3	Liner	NBR (Buna) / EPDM/ FPM

DIMENSIONS PN 16														
DN	A	B	C	D	E	N	F2	F1	G1	G2	H	I	J	Weight kg
80	157	98,5	261	160	18	8	200	130	46	16	356	195	90	5,45
100	167,5	109,5	282	180	18	8	220	150	52	16	377,5	195	90	6,55
125	180	122	307	210	18	8	250	180	56	16	402,5	195	90	8,25
150	203	145	353	240	22	8	285	206	56	20	458,5	276	90	11,50
200	228,5	170,5	404	295	22	12	340	250	60	20	509,5	276	90	15,50

DIMENSIONS PN 10														
DN	A	B	C	D	E	N	F2	F1	G1	G2	H	I	J	Weight kg
200	228,5	170,5	404,5	295	22	8	340	250	60	20	509,5	276	90	15,5

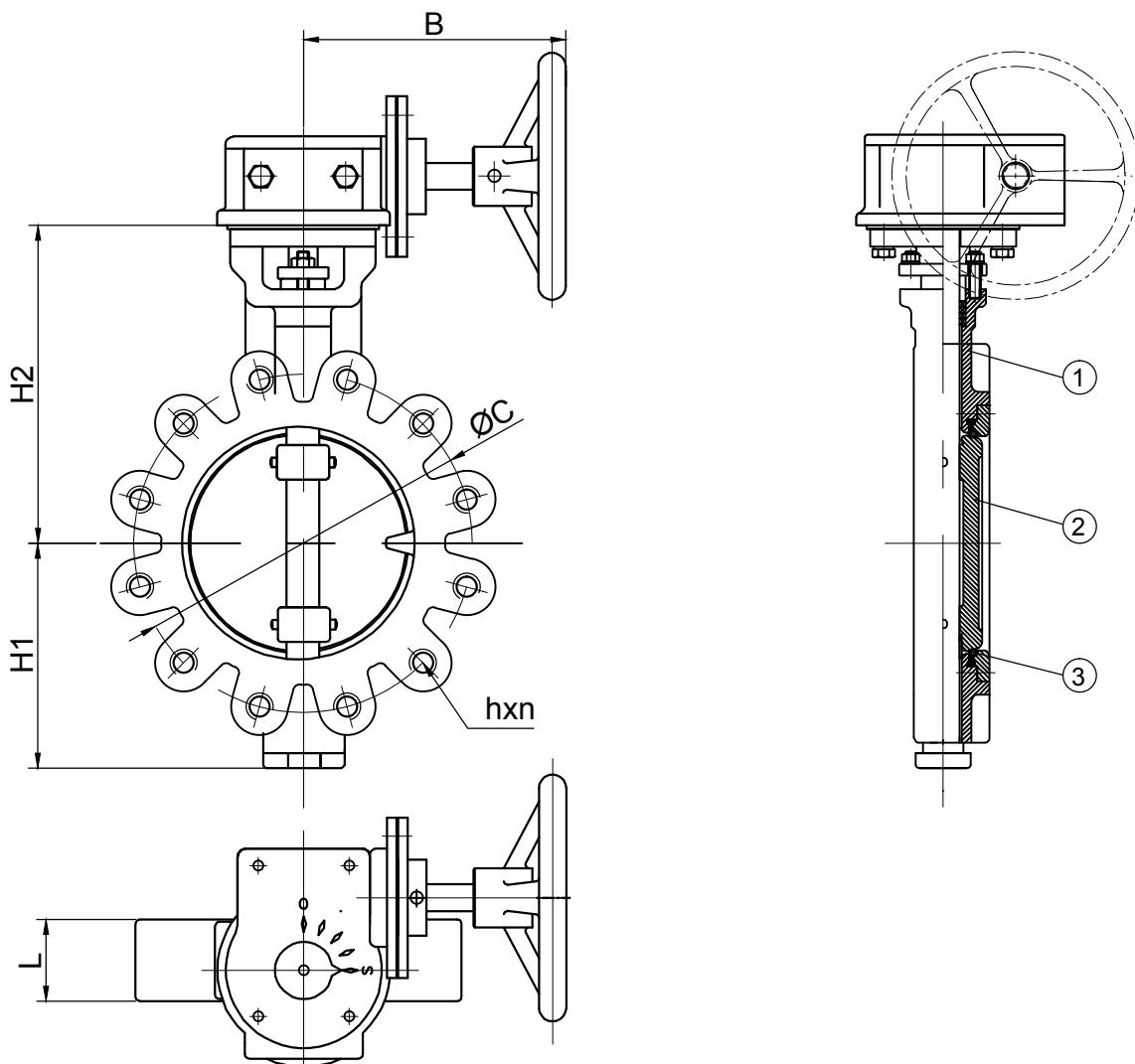
LUG BUTTERFLY VALVE (LEVER) PN 10



No.	Part	Material
1	Body	CF8M (AISI 316)
2	Disc	CF8M (AISI 316)
3	Liner	PTFE

PN10							
DN	C	H1	H2	N	n	L	W
80	160	113	165	M16	8	48	254
100	180	130	185	M16	8	52	254
125	210	147	205	M16	8	57	380
150	240	164	223	M20	8	57	380

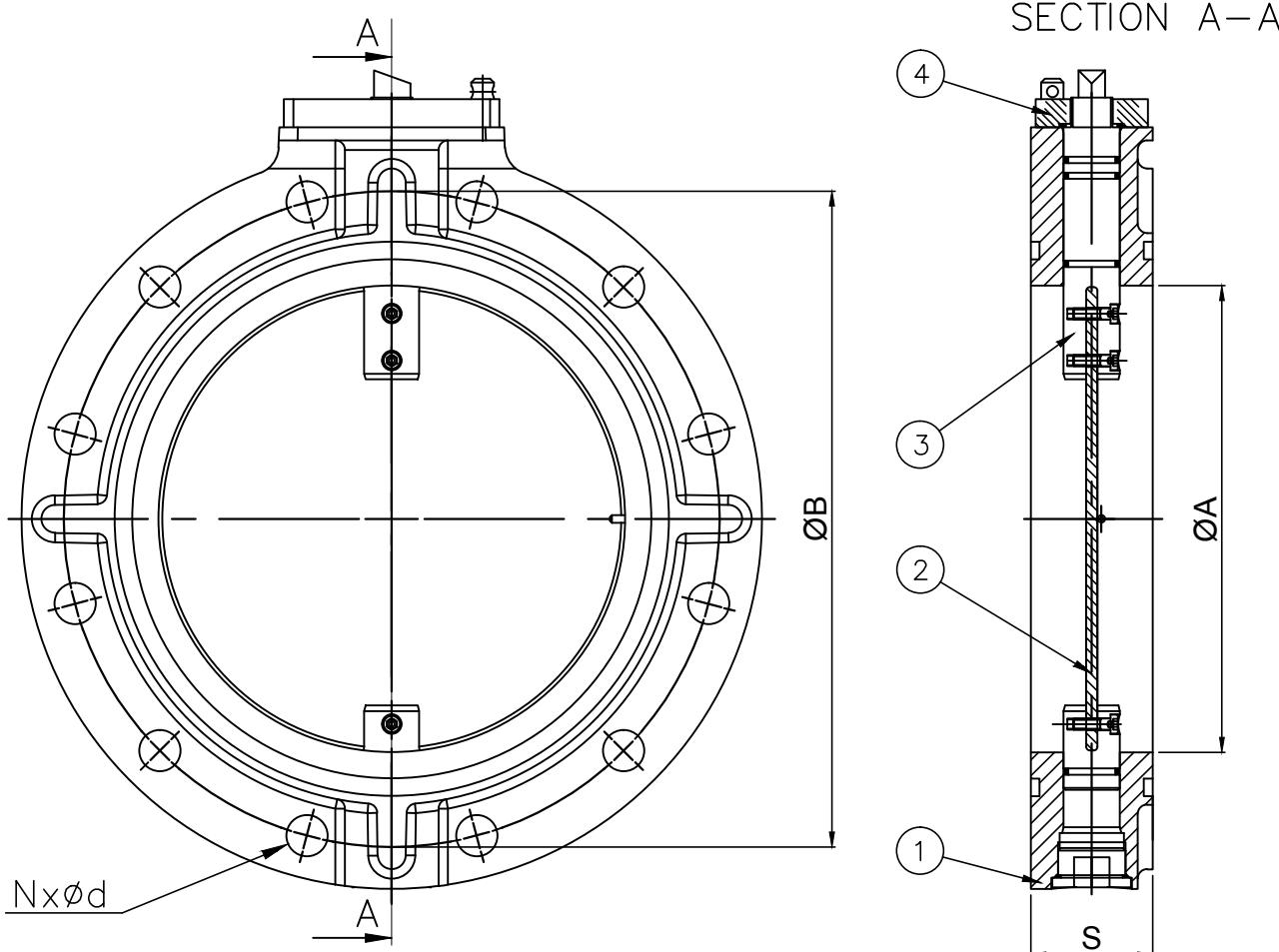
LUG BUTTERFLY VALVE (GEAR OPERATED) PN 10



No.	Part	Material
1	Body	CF8M (AISI 316)
2	Disc	CF8M (AISI 316)
3	Liner	PTFE

PN10							
DN	C	H1	H2	N	n	B	L
200	295	203	268	M20	8	267	61
250	350	235	310	M20	12	267	70
300	400	268	356	M22	12	272	78

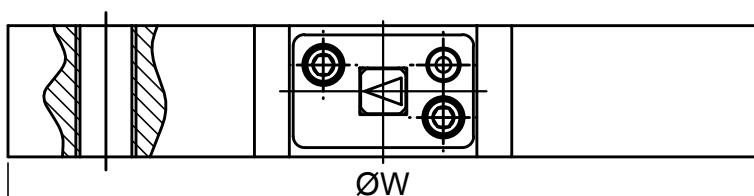
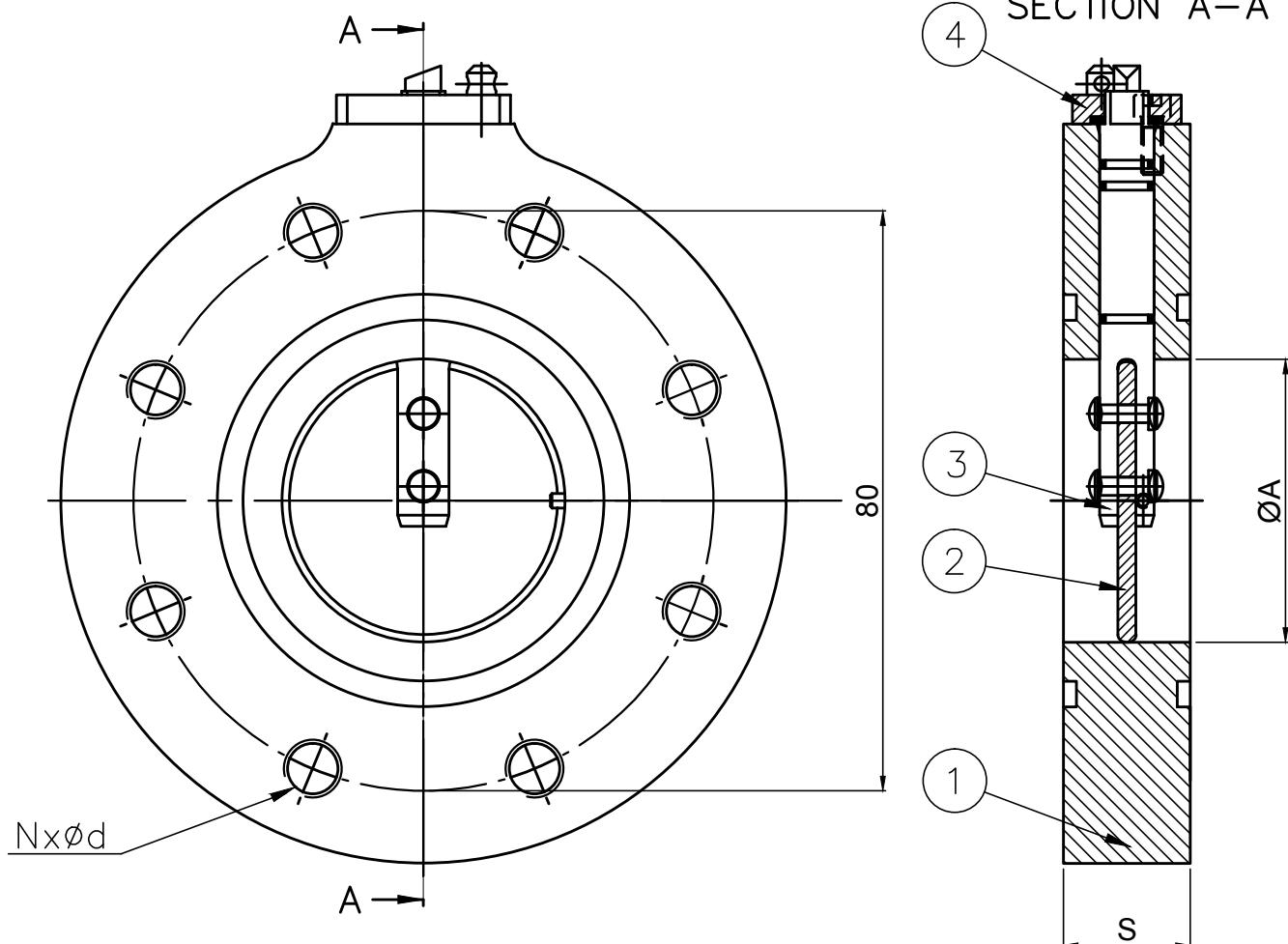
BUTTERFLY VALVE EN 50216



No.	Part	Material
1	Body	CS/W.Nr.1.4301/W.Nr 1.4404
2	Disc	W.Nr.1.4301/W.Nr 1.4404
3	Shaft	W.Nr.1.4057
4	Cover	W.Nr.1.4301/W.Nr 1.4404

Type	DN	$\varnothing A$	$\varnothing B$	$\varnothing W$	N	$\varnothing d$	H	S
B1-DN80	80	78	160	200	4	18	13	35
B1-DN80/8	80	78	160	200	8	18	13	35
B1-DN100	100	98	180	220	8	18	14	35
B1-DN125	125	124	210	250	8	18	17	40
B1-DN150	150	149	240	285	8	22	17	40
B1-DN175	175	174	270	315	8	22	18	40
B1-DN200	200	198	295	340	8	22	30	60
B1-DN250	250	249	350	395	12	22	32	65
B1-DN300	300	299	400	445	12	22	35	65

BUTTERFLY VALVE EN 50216



- tightness and operating tests acc. to EN 50216

No.	Part	Material
1	Body	CS/W.Nr.1.4301/W.Nr 1.4404
2	Disc	W.Nr.1.4301/W.Nr 1.4404
3	Shaft	W.Nr.1.4057
4	Cover	W.Nr.1.4301/W.Nr 1.4404

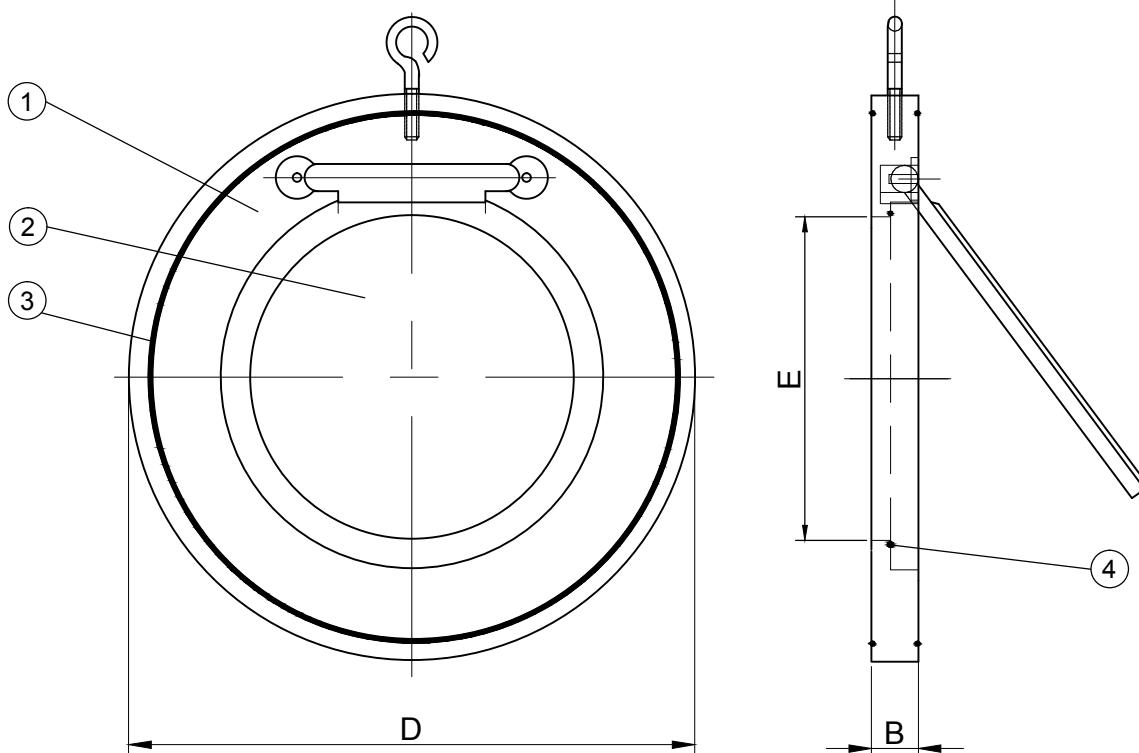
Type	DN	$\varnothing A$	$\varnothing B$	$\varnothing W$	N	$\varnothing d$	S
C1-DN25	25	28	85	115	4	M12	35
C1-DN50	50	51	125	165	4	M16	35
C1-DN80	80	78	160	200	4	M16	35
C1-DN80/8	80	78	160	200	8	M16	35
C1-DN100	100	98	180	220	8	M16	35
C1-DN125	125	124	210	250	8	M16	40
C1-DN150	150	149	240	285	8	M20	40
C1-DN175	175	174	270	315	8	M20	40
C1-DN200	200	198	295	340	8	M20	40
C1-DN250	250	249	350	395	12	M20	40
C1-DN300	300	299	400	445	12	M20	40



WAFER SWING CHECK VALVES

WAFER SWING CHECK VALVE

WITH O-RING

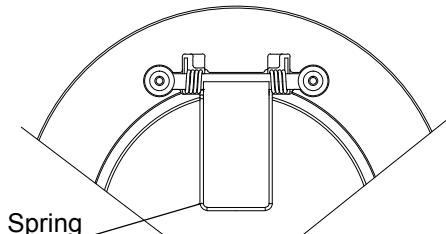


Position	Name	Material
1	Body	CS / AISI304 / AISI316 / BRONZE
2	Disc	AISI 316 / AISI 304
3	O-ring	NBR (Buna), EPDM, Viton
4	O-ring	NBR, EPDM, Viton

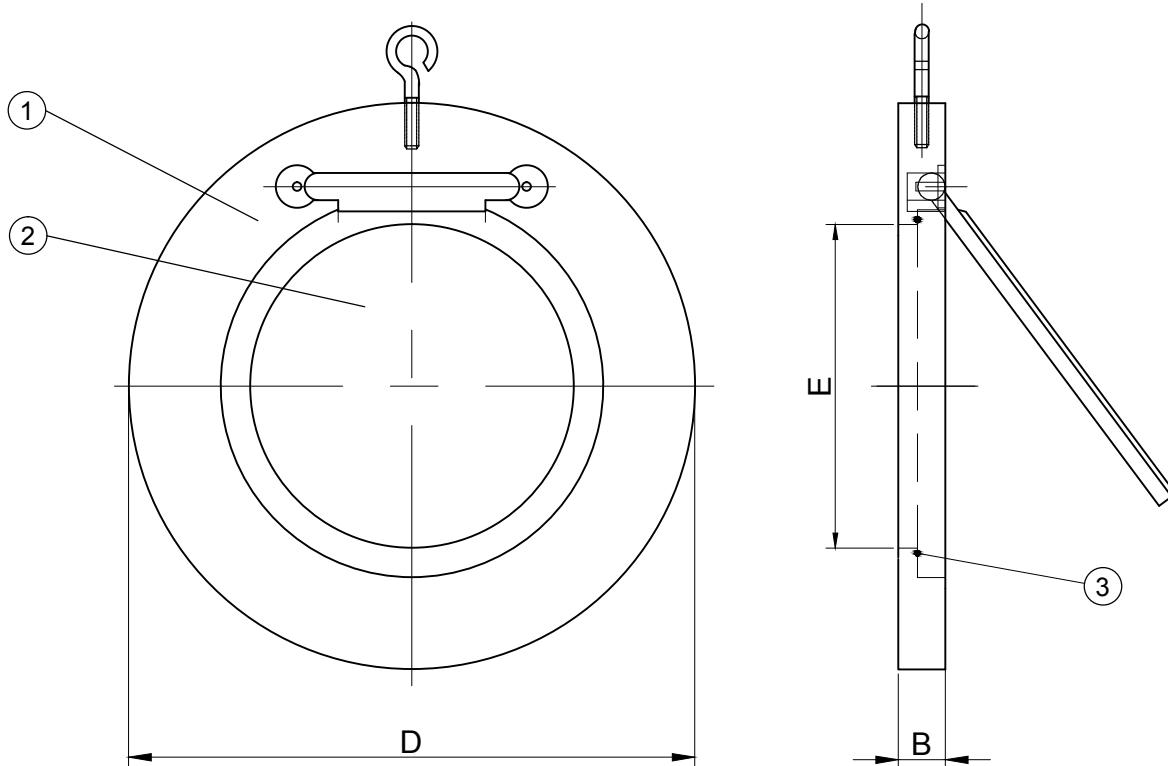
DIMENSIONS					
DN			PN10	PN16	KG
	B	E	D	D	
40	14	22	95	95	0,7
50	14	32	110	110	0,9
65	14	40	130	130	1,2
80	14	54	145	145	1,5
100	18	70	165	165	2,4
125	18	92	195	195	3,4
150	20	112	220	220	4,6
200	22	154	275	275	7,5
250	26	192	330	330	13
300	32	240	380	387	20
350	38	270	440	447	32
400	44	310	490	495	48

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$

Option- with spring:

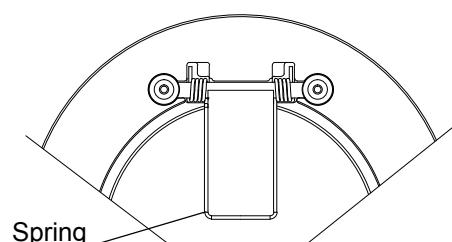


WAFER SWING CHECK VALVE



No.	Part	Material
1	Body	CS / AISI304 / AISI316 / BRONZE
2	Disc	AISI 316 / AISI 304
3	O-ring	NBR, EPDM, Viton

Option- with spring:



DIMENSIONS					
DN			PN10	PN16	KG
	B	E	D	D	
40	14	22	95	95	0,7
50	14	32	110	110	0,9
65	14	40	130	130	1,2
80	14	54	145	145	1,5
100	18	70	165	165	2,4
125	18	92	195	195	3,4
150	20	112	220	220	4,6
200	22	154	275	275	7,5
250	26	192	330	330	13
300	32	230	380	387	20
350	38	270	440	447	32
400	44	310	490	495	48

Operating temperature AISI316: $t_{\min} = -50^{\circ}\text{C}$; $t_{\max} = +200^{\circ}\text{C}$
Suitable for environment temperature $t \geq -50^{\circ}\text{C}$



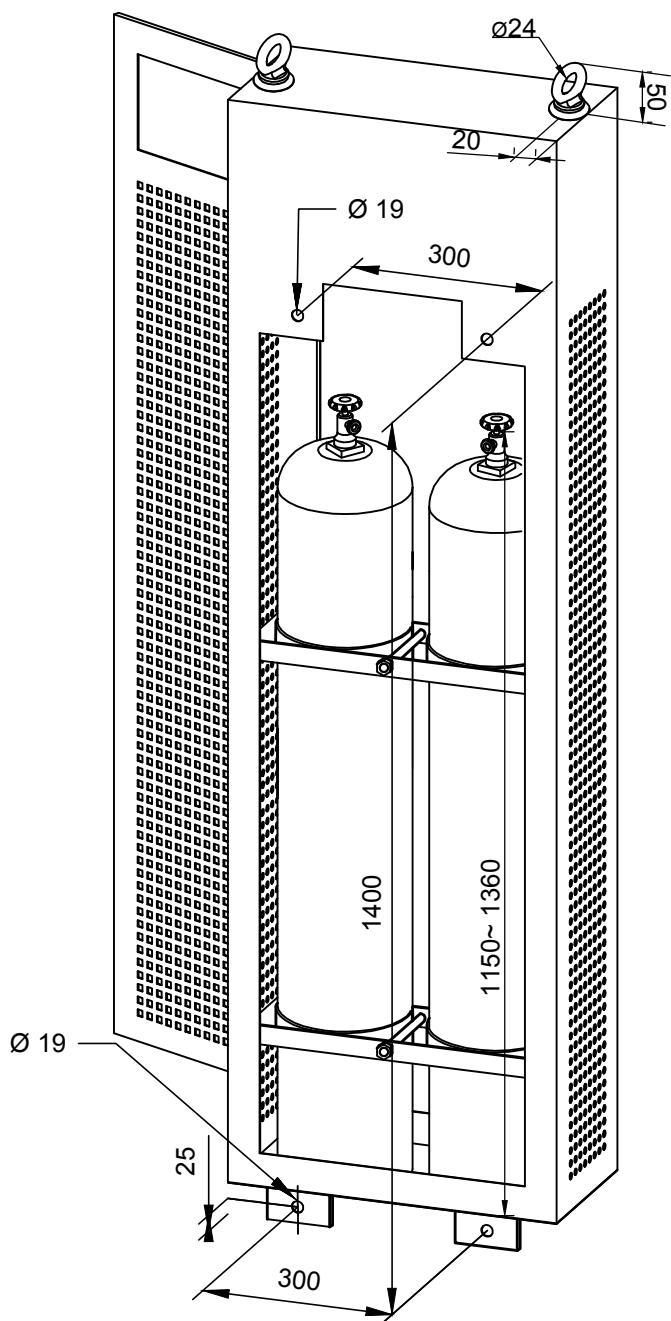
OTHER PRODUCTS

SYNTHETIC AIR PRESSURE MAINTAINING DEVICE

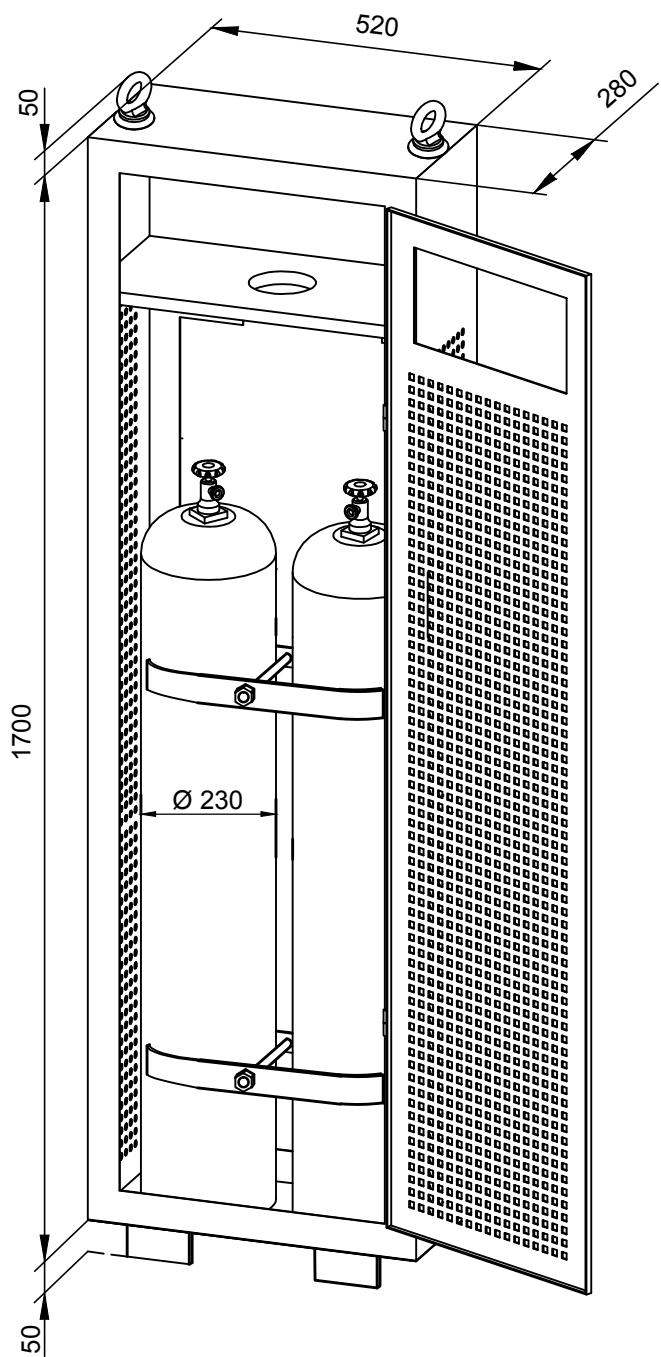
Complete device is contained within the cabinet. Pressure vessels with synthetic air are placed in the lower part of the cabinet and are connected with regulating reduction valve located in the upper part of the cabinet.

Device reduces the pressure from 160 bar to 0-16 bar. Minimum allowed pressure on the outlet is 0,03 bar and the maximum is 0,3 bar.
Outlet pressure to be defined on the purchase order.

BACK SIDE



FRONT SIDE



* CAN BE DELIVERED WITHOUT BOTTLES

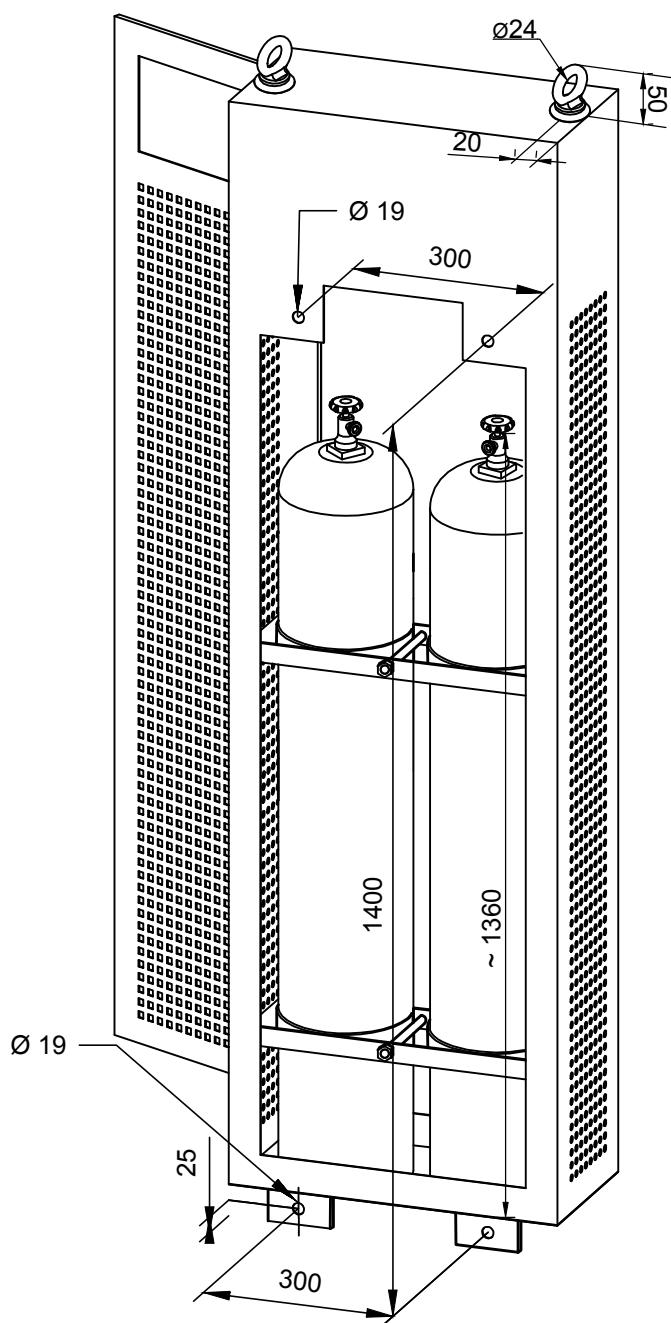
NITROGEN PRESSURE MAINTAINING DEVICE

Complete device is contained within the cabinet. Pressure vessels with nitrogen are placed in the lower part of the cabinet and are connected with regulating reduction valve located in the upper part of the cabinet.

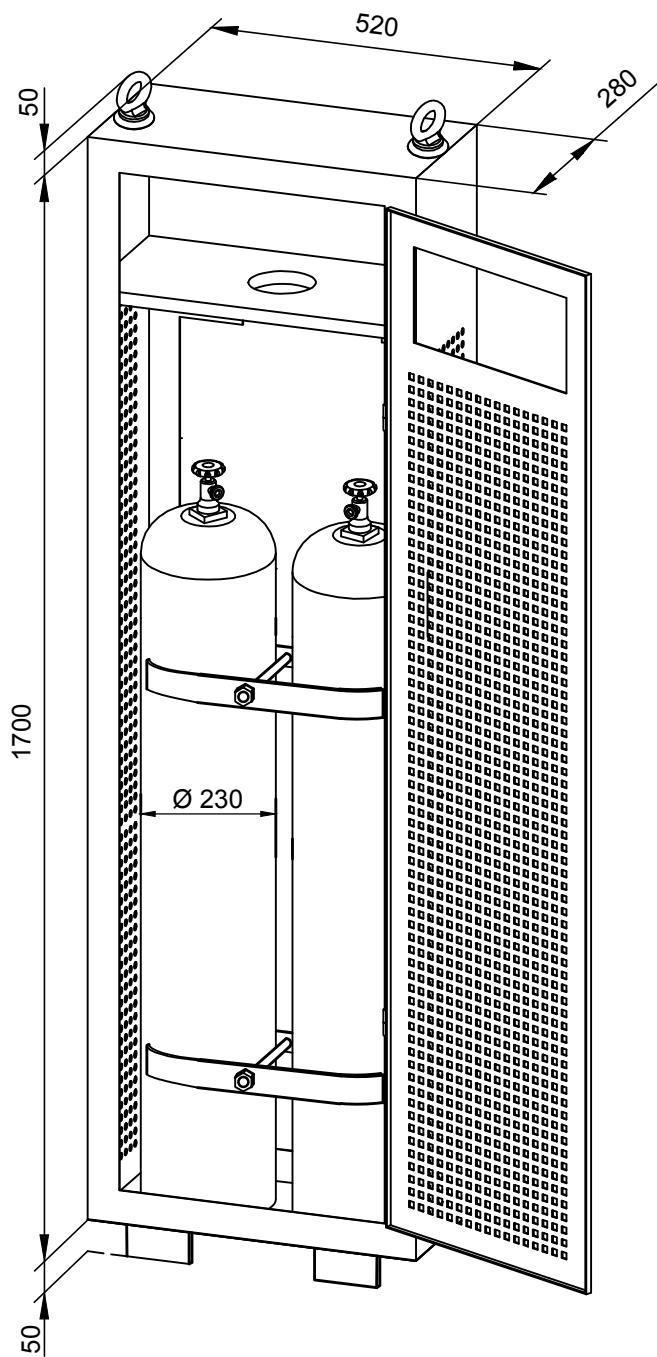
Device reduces the pressure from 160 bar to 0-16 bar. Minimum allowed pressure on the outlet is 0,03 bar and the maximum is 0,3 bar.

Outlet pressure to be defined on the purchase order.

BACK SIDE

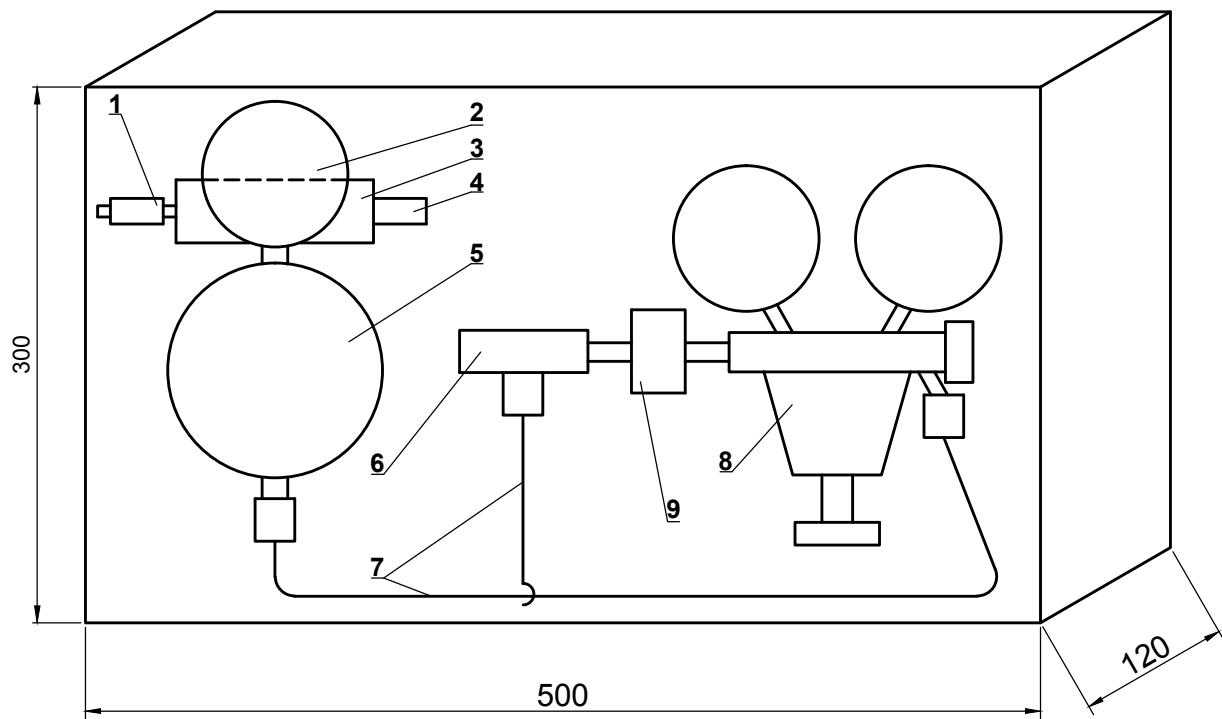


FRONT SIDE



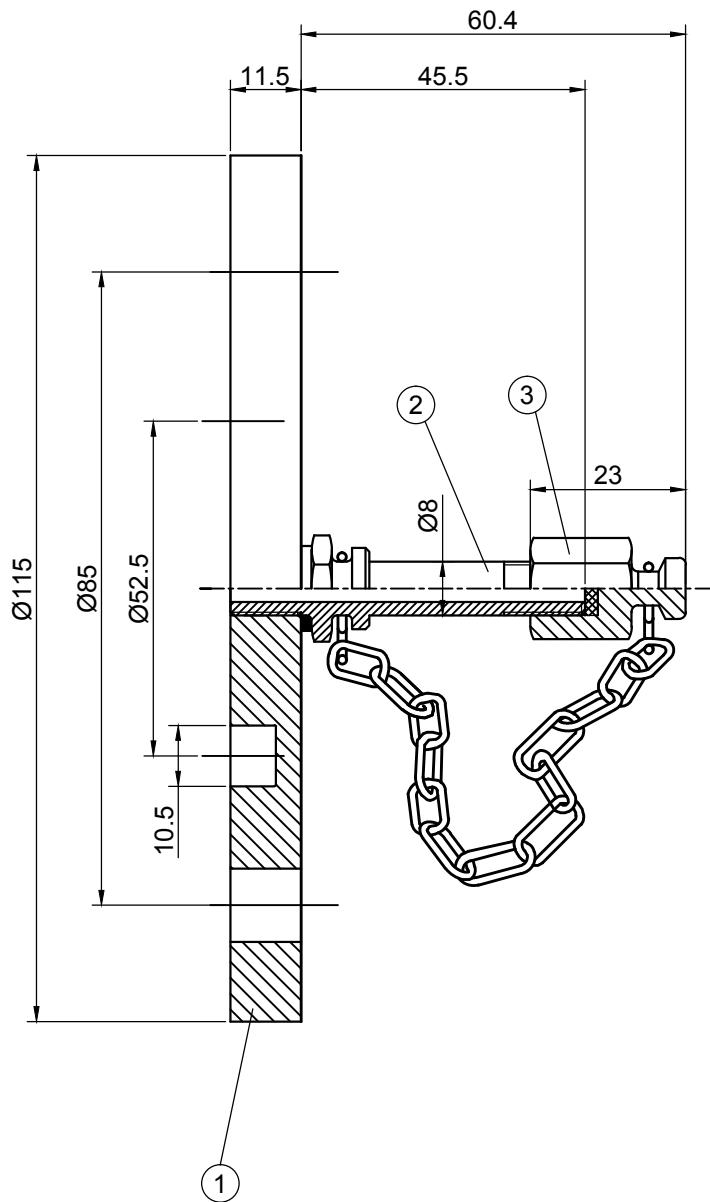
MAINTAINING DEVICE

Complete device is contained within the cabinet. Device reduces the pressure from 160 bar to 0-16 bar. Minimum allowed pressure on the outlet is 0,03 bar and the maximum is 0,3 bar.Outlet pressure to be defined on the purchase order



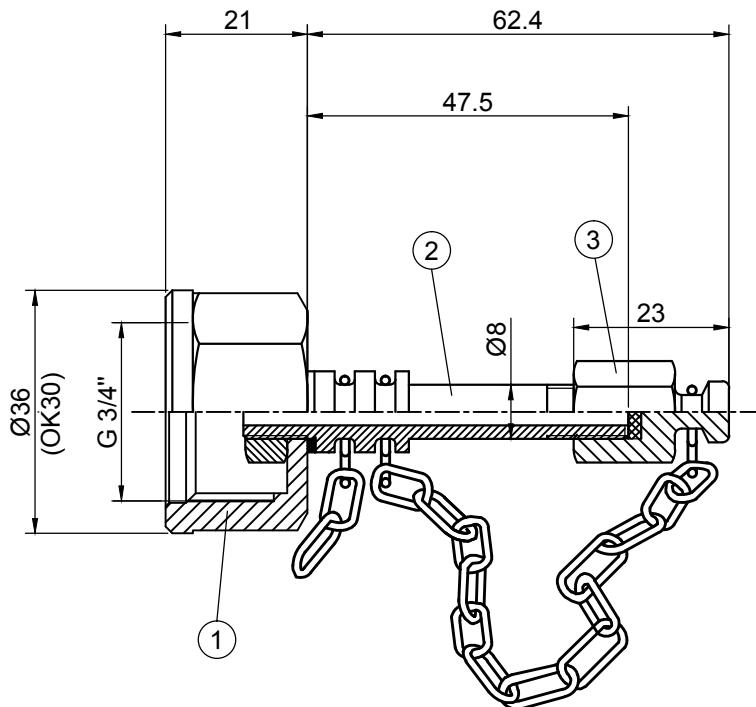
1	Ball valve
2	Manovacuummeter
3	Distributor
4	Saftey valve
5	Pressure regulator
6	Distributor
7	Tube
8	Reducing valve
9	Carrier

FLANGED CONNECTOR WITH CAP DN 25 PN16



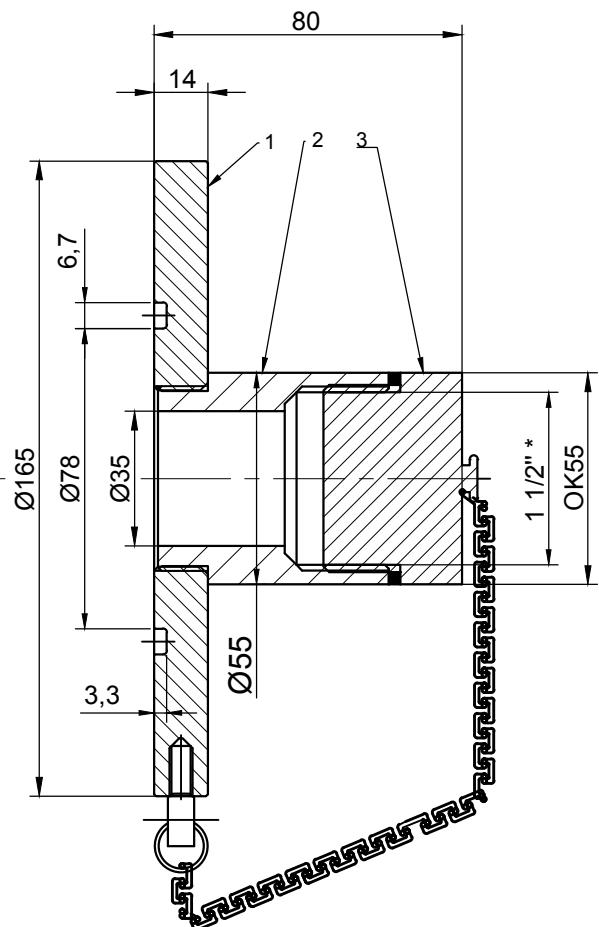
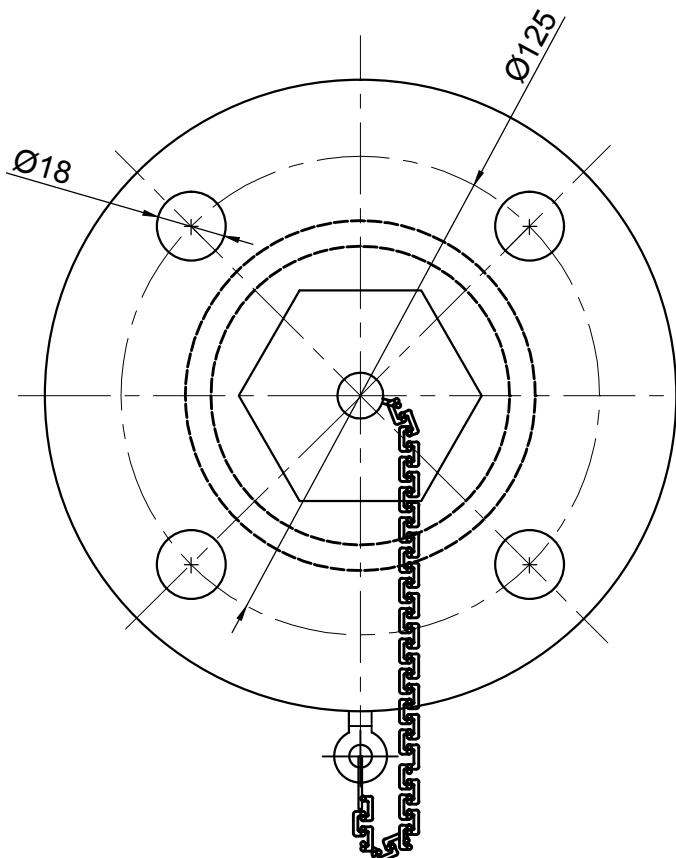
No.	Part	Material
1	Flange	SS
2	Pipe	SS
3	Cap	SS

SAMPLING PIPE FOR OUTLET VALVE DN15



No.	Part	Material
1	Valve cap	SS
2	Pipe	SS
3	Pipe cap	SS

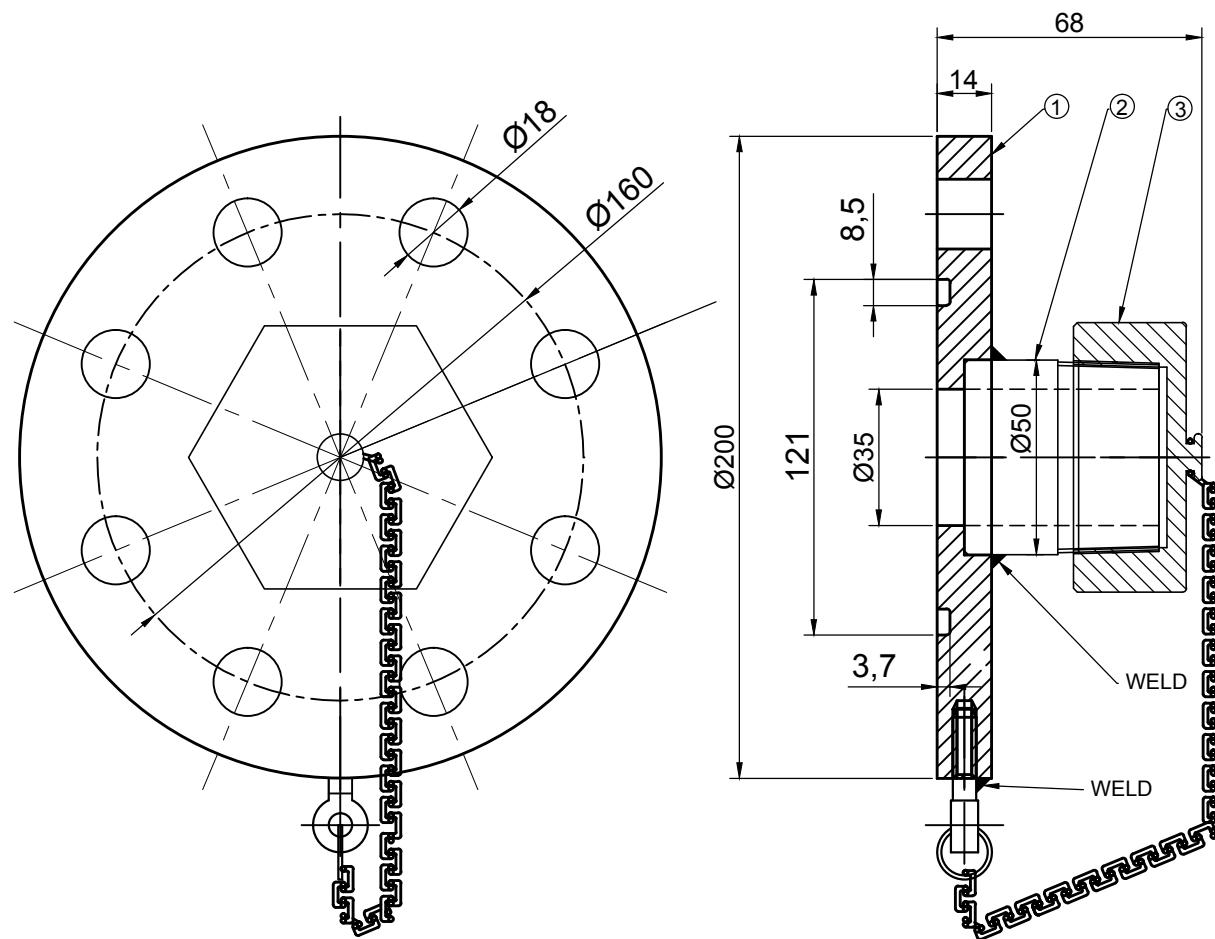
FLANGED CONNECTOR WITH PLUG DN 50/1 $\frac{1}{2}$ " PN16



* thread: NPT or BSPT or ISO228

No.	Name	Material
1	Flange	Brass / SS / CS
2	Nipple	Brass / SS / CS
3	Cap	Brass / SS / CS

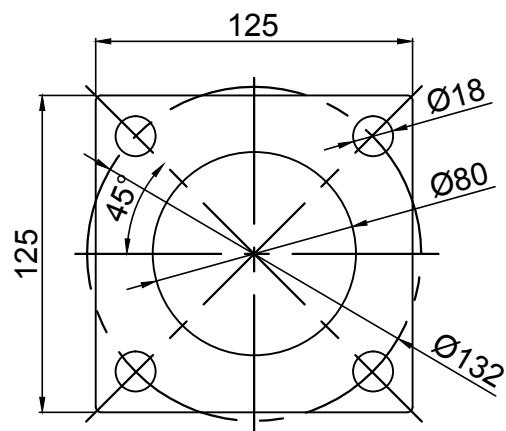
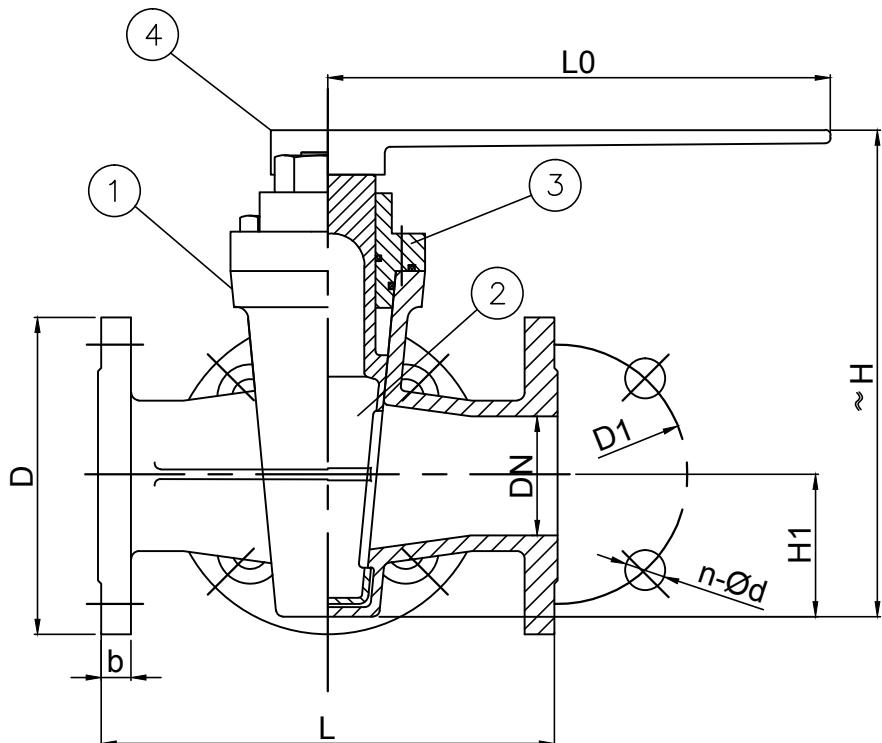
FLANGED CONNECTOR WITH CAP DN 80/1 $\frac{1}{2}$ "



* thread: NPT or BSPT or ISO228

No.	Name	Material
1	Flange	SS/MS
2	Nipple	SS/MS
3	Cap	SS/MS

3-WAY PLUG VALVE

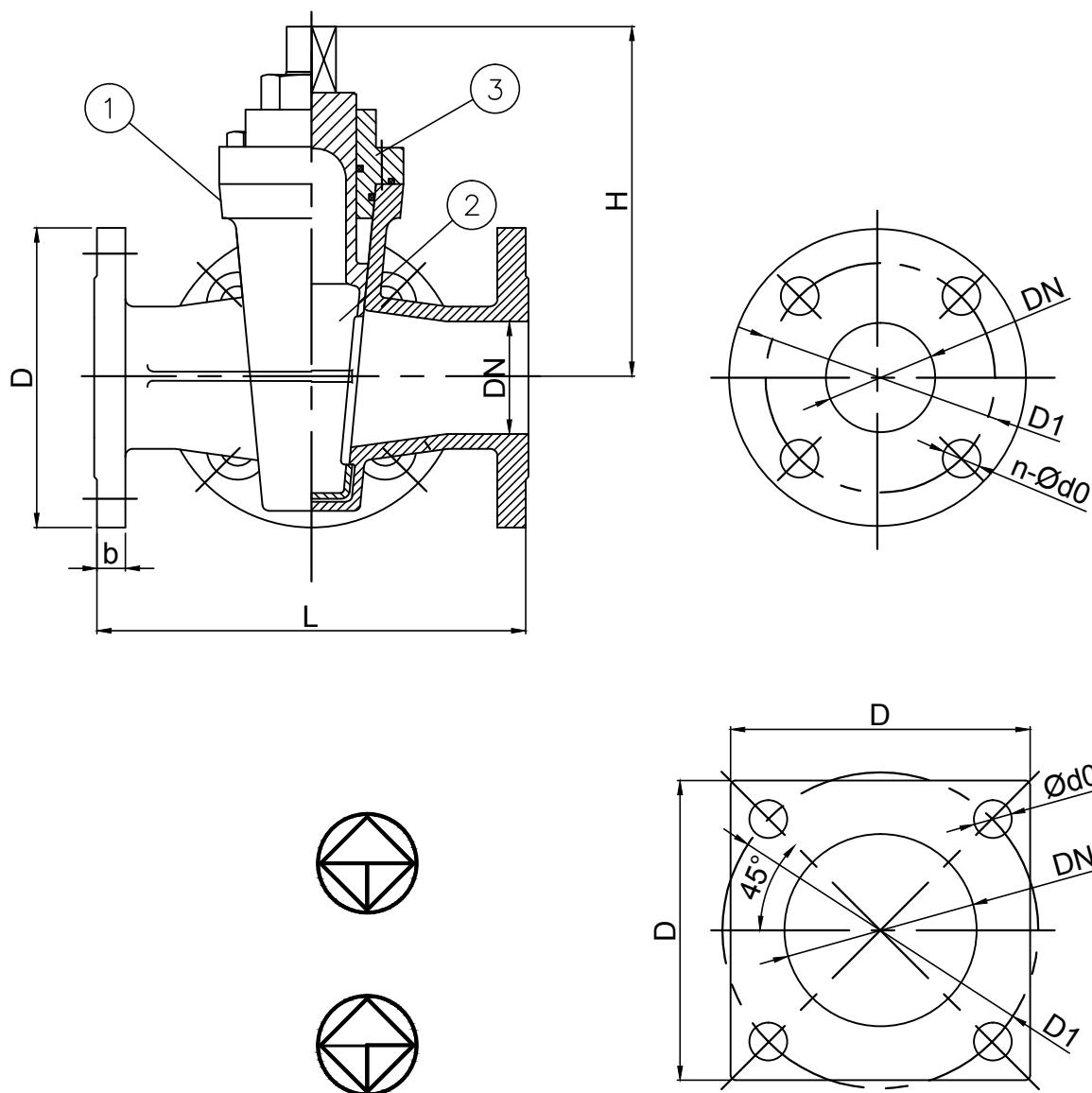


No.	Part	Material
1	Body	Bronze CC491K (RG5)
2	Plug core	Bronze CC491K (RG5)
3	Cap	Bronze CC491K (RG5)
4	Handle	QT400

PN(MPa)	DN	D	D1	L _s	L0	H	H1	b	n	d0
1.0	25	115*	85	160	280	130	43	16	4	18
1.0	80	125	132	305 310	320	210	70	16	4	14

*round flange

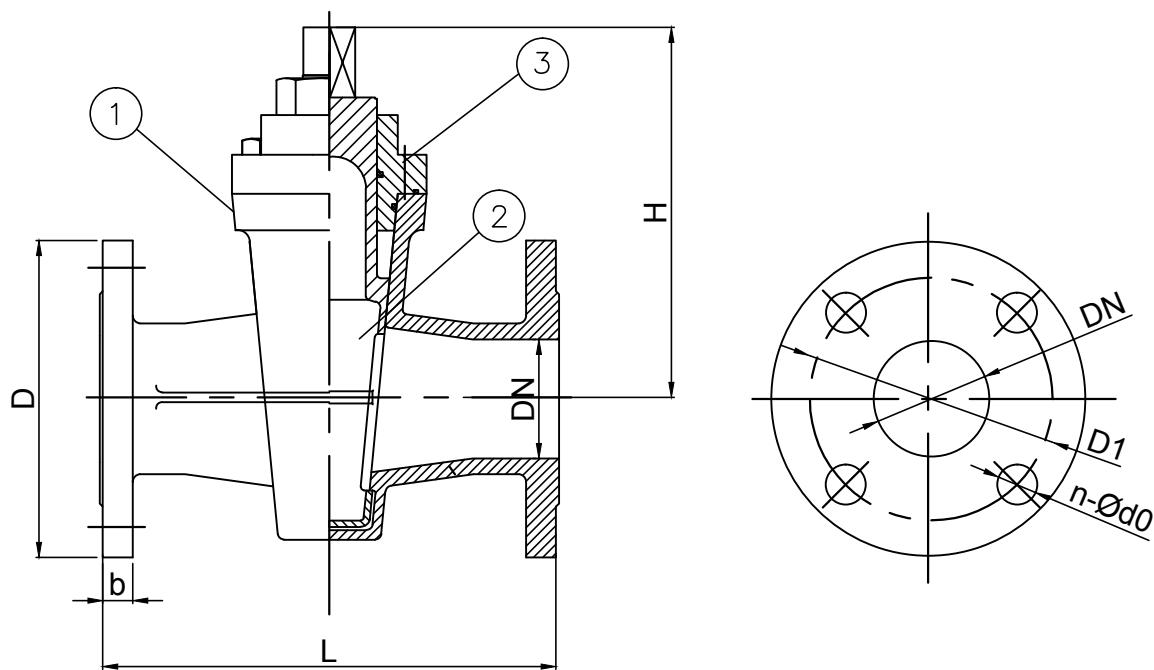
3-WAY PLUG VALVE - DIN 42544



No.	Part	Material
1	Body	Bronze CC491K (RG5)
2	Plug core	Bronze CC491K (RG5)
3	Cap	Bronze CC491K (RG5)

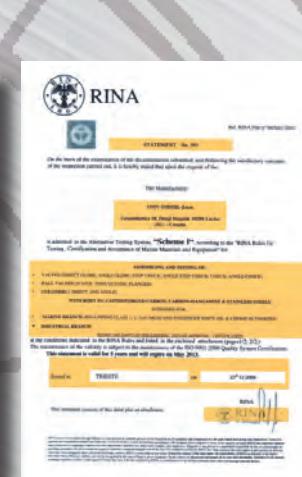
DN	D (round)	D (square)	D1 (round)	D1 (square)	L	H	b	n (round)	n (square)	d0
25	115	-	85	-	160	110	16	4	-	14
80	200	125	160	132	290	140	18	8	4	18

2-WAY PLUG VALVE - DIN 42544



No.	Part	Material
1	Body	Bronze CC491K (RG5)
2	Plug core	Bronze CC491K (RG5)
3	Cap	Bronze CC491K (RG5)

DN	D (round)	D (square)	D1 (round)	D1 (square)	L	H	b	n (round)	n (square)	d0
25	115	-	85	-	160	110	16	4	-	14
80	200	125	160	132	290	140	18	8	4	18



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