

ENERGY
2021

Valves for oil-immersed transformers





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Valvomec S.r.l.

Via Tagliaferro 1/1
Z.I. Roccapietra
13019 Varallo
ITALY

Phone: 0039 (0)163 792000

Fax: 0039 (0)163 54646

Mail: sales@valvomec.it

Sales Manager

Mr. Fabio Bailo

Phone: 0039 (0)163 792000-202

sales@valvomec.it

Technical Dept. & Projects Manager

Mr. Pirabangan Rajagopalasingam

Phone: 0039 (0)163 792000-238

projects@valvomec.it

Administration

Phone: 0039 (0)163 792000

administration@valvomec.it

Sales Dept.

Ms. Francesca Caruso

Phone: 0039 (0)163 792000-225

francesca.caruso@valvomec.it

Quality Manager

Mrs. Laura Alberganti

Phone: 0039 (0)163 792000-230

quality@valvomec.it

Sales Dept.

Mrs. Stefania Cena

Phone: 0039 (0)163 792000-201

export@valvomec.it

Foundry Manager

Mr. Paolo Mantovani

Phone: 0039 (0)163 792000-216

tech@valfond.it

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Casting Expertise

The casting is the beginning of a valve and our foundry is where all this takes place.

Valvomec has its own internal bronze foundry since 1929 and developed during the years a deep expertise in both shell moulding and green sand casting systems.

Spectrometric analysis guarantee maximum quality both on castings and on machining.

For specific projects is also possible to realize 3D simulation of casting flow, on request.



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Our mission: supply High Quality Products and Services

Valvomec has a long tradition in supplying the international market with valves of high quality: 90 years of experience in development and production of valves.

The Quality System of Valvomec is the heart of a Quality Production, which is monitored all along the manufacturing process, and it is the key of the success throughout the years.

This value runs in all the processes of the factory, from purchasing to selling, from the casting to the final testing.



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The company is fully equipped with a metrology room for accurate dimensional measurements of machined parts.



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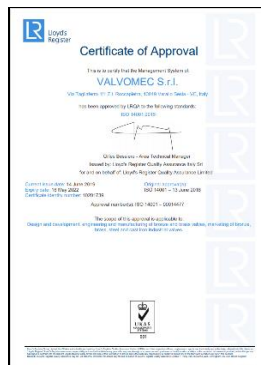
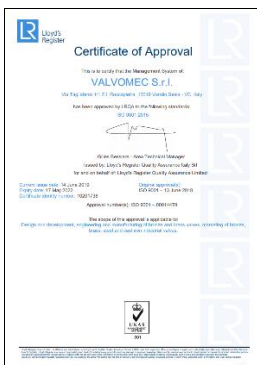
Certifications

Valvomec is certified according to UNI EN ISO 9001:2015 for the Quality Management System. The entire productive process is monitored by our qualified staff of the Quality Department supported by the most innovative equipment. Our valves, are 100% pneumatically or hydraulically tested and are built to endure over time. Product quality has always been our aim.



Valvomec is certified according to UNI EN ISO 14001:2015 for the Environmental Management System. Our EMS (Environmental Management System) is comprised of the policies, processes, plans, practices and records that define the rules governing how our company interacts with the environment. It is a crucial theme for Valvomec to do all the best to reduce its environmental footprint.

At Valvomec, working with the aim of Total Quality outcomes means working in a safe environment. Because of that, in 2021 we are being certified UNI EN ISO 45001 for *Occupational Health and Safety Management System*.



Energy Line

For more than 30 years Valvomec has been producing bronze valves for oil-cooled transformers, for heavy-duty use for electricity generation and distribution for the international markets.

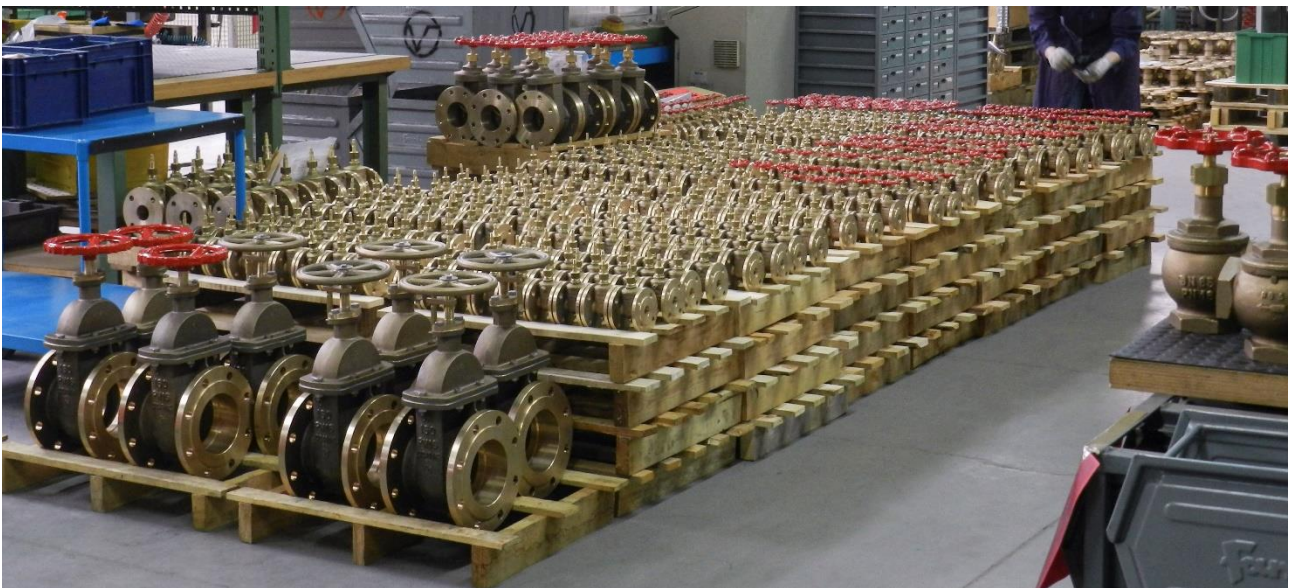
The  mark casted on our valves is synonymous with experience in constructing valves for power transformers with high performance. In addition, Valvomec relies on trustful partners for offering our customers a range of products with high performances.



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Onshore Applications

Bronze Gate Valves for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
09320	DN100 - DN250	Flanged	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	10
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	11
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	12
09420	DN25 - DN80	Flanged	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	13
09420	DN25 - DN80	Flanged - Guillelmin	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	14
*(1)	DN15 – DN80	Flanged	Max. PN16 For oil mac. 16.0 bar	-40°C to +180°C 233K to 453K	15
*(2)	DN15 – DN50	Flanged - Threaded	Max. PN16 For oil mac. 16.0 bar	-40°C to +180°C 233K to 453K	16

Bronze Globe Valve for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
03021	Dn15 – DN25 - DN50 – DN80	Flanged	Max. PN16 For oil mac. 16.0 bar	-40°C to +180°C 233K to 453K	17

Bronze Ball Valve for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
*(3)	Dn15 – DN250	Flanged	Max. PN16 16.0 bar	-10°C to +150°C 263K to 423K	18

Outlet Valves for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
03199	DN15 – DN32	Flanged - Threaded	Max. PN6, For oil mac. 6.0 bar	-40°C to + 115°C 233K to 388K	19
30199	DN15 – DN32	-	-	-	20

Bronze Plug Cocks and Three-way Plug Cocks for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
12170	DN25 – DN80	Flanged	Max. PN16, For oil mac. 5.0 bar	-25°C to + 115°C 248K to 388K	21
14060	DN50 – DN65	Flanged	Max. PN16, For oil mac. 10.0 bar	-25°C to + 115°C 248K to 388K	22
14170	DN25 – DN80	Flanged	Max. PN16, For oil mac. 5.0 bar	-40°C to + 115°C 233K to 388K	23
14175	DN80	Flanged	Max. PN16, For oil mac. 5.0 bar	-25°C to + 115°C 248K to 388K	24
30060, 30170	DN25 – DN80	-	-	-	25

Bronze Plug Key

Type	Nominal Size	Connections	Working pressure	Temperature	Page
55322	DN25 - DN80	-	-	-	26

Offshore Applications

Bronze Gate Valves for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
09320	DN100 - DN250	Flanged	Max. PN16, For oil mac. 6.0 bar	-25°C to + 120°C 248K to 393K	28
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-60°C to + 120°C 213K to 393K	29
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-60°C to + 120°C 213K to 393K	30

Outlet Valves for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
03199	DN15 – DN32	Flanged	Max. PN6, For oil mac. 6.0 bar	-60°C to + 115°C 213K to 388K	31

Low Temperature Applications

Bronze Gate Valves for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
09320	DN100 - DN250	Flanged	Max. PN16, For oil mac. 6.0 bar	-60°C to + 120°C 213K to 393K	33
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-60°C to + 120°C 213K to 393K	34
09420	DN25 - DN100	Flanged	Max. PN16, For oil mac. 6.0 bar	-60°C to + 120°C 213K to 393K	35
*(4)	Dn15 – DN250	Flanged	Max. PN16 16.0 bar	-60°C to +180°C 213K to 453K	36

Bronze Globe Valve for oil-immersed Transformers

Type	Nominal Size	Connections	Working pressure	Temperature	Page
03021	Dn15 – DN25 - DN50 – DN80	Flanged	Max. PN16 For oil mac. 16.0 bar	-60°C to +180°C 213K to 453K	37

Valves for Onshore Applications



Gate Valve DIN EN 12288

Type **09320**

Flanged Gate Valves, PN10 - 16, DIN EN 12288

Bronze body and bolted topwork

With maintenance-free gland packing (O-Ring) and non-rising stem

Raised Face, Flanged connection acc. To DIN EN 1092-3 PN16

Part No. 09320.X.110000

Valve with opening indicator and locking device without lock

Part No. 09320.X.120000

Valve with opening indicator and locking device with lock

Available options:

Pos	Code	Description
.X.	-	Please see chart below
	-	Flange personalized on request



Application

Suitable for transformer oil.
Onshore Applications

Working temperatures and pressure

Up to max. 6.0 bar:
From -25°C / -13°F (248K) up to +120°C / +248°F (393K)

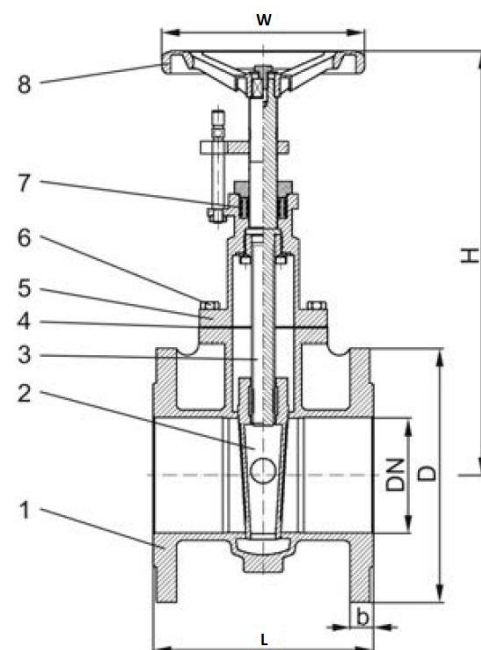
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1 - Rate "A"

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



	Material	DIN EN	ASTM
1	Body	Bronze CC491K	B 62 UNS C83600
2	Wedge	Bronze CC491K	B 62 UNS C83600
3	Stem	Brass CW614N	B 283 UNS C38500
4	Bonnet Gasket	Klingersil C-4400	
5	Headpiece	Bronze CC491K	B 62 UNS C83600
6	Bolts	1.4571/A4 similar A 194 B8T	Similar A 194 B8T
7	O.Rings	FPM (Viton)	
8	Handwheel	Aluminium - diecasting	

Description		Dimension [mm]				
Nominal size	DN	100	125	150	200	250
Size code	.X.	1000	1250	1500	2000	2500
Face-to-face dimension	L	190	208	210	230	250
Height	H	367	429	469	593	690
Flange Diameter	D	220	250	285	340	395
Width of flange	b	20	22	22	24	24
Handwheel	W	175	200	225	300	300
Max. Working Pressure	PN	16	16	16	10	10
Flange connect DIN EN1092-3	PN	16	16	16	16	16
Weight (approx.)	Kg	23.5	32.0	42.5	71.0	106.0

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Bronze body, screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Raised Face, Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.000000

Standard Valve

Part No. 09420.X.010000

Valve with locking device without lock

Part No. 09420.X.020000

Valve with locking device with lock

Available options:

Pos	Code	Description
.X.	-	Please see chart below
	-	Flange personalized on request

Application Suitable for transformer oil.
Onshore Applications

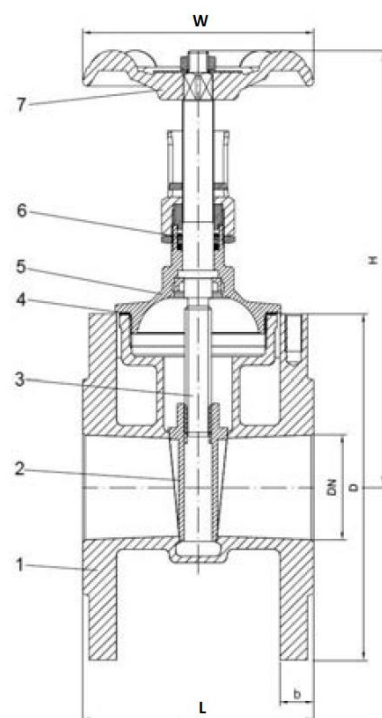
Working temperatures and pressure Up to max. 6.0 bar:
From -25°C / -13°F (248K) up to +120°C / +248°F (393K)

Standards Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1 - Rate "A"

Note When requesting an offer or order, please indicate flow medium, working pressure and working temperature.

option:
Locking device →



	Materials	DIN EN	ASTM
1	Body	Bronze CC491K	B 62 UNS C83600
2	Wedge	Bronze CC491K	B 62 UNS C83600
3	Stem	Brass CW614N	B 283 UNS C38500
4	Bonnet gasket	Klingsil C-4400	
5	Headpiece	Brass CW614N	B283 UNS C28500
6	O-Ring	FPM (Viton)	
7	Hand wheel	Aluminium - diecasting	

Description	Dimension [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Hand wheel-Ø	W	70	80	80	110	130	150	150
Face-to-face dimension	L	80	90	100	110	130	150	165
Width to flange*	b	12	14	14	16	16	18	20
Height	H	120	135	155	180	225	250	295
Flange diameter*	D	115	140	150	165	185	200	220
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx..)	Kg	2.5	3.9	4.9	7.0	9.5	12.1	19.0

Gate Valve

Type **09420**

Flanged Gate Valve for transformers, PN16, DIN EN 12288

Bronze body, screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Raised Face, Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.100000

Standard Valve

Part No. 09420.X.110000

Valve with opening indicator and locking device without lock

Part No. 09420.X.120000

Valve with opening indicator and locking device with lock

Available options:

Pos	Code	Description
.X.	-	Please see chart below
	-	Flange personalized on request

Application

Suitable for transformer oil.
Onshore Applications

Working temperatures and pressure

Up to max. 6.0 bar:
-25°C / -13°F (248K) up to +120°C / +248°F (393K)

Standards

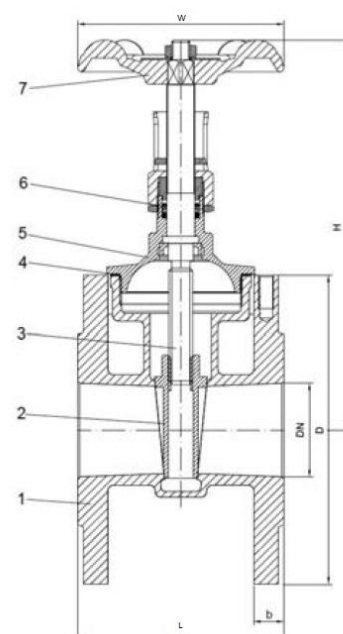
Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.

option:
Locking device →



	Materials	DIN EN	ASTM
1	Body	Bronze CC491K	B 62 UNS C83600
2	Wedge	Bronze CC491K	B 62 UNS C83600
3	Stem	Brass CW614N	B 283 UNS C38500
4	Bonnet gasket	Klingersil C-4400	
5	Headpiece	Brass CW614N	B283 UNS C28500
6	O-Ring	FPM (Viton)	
7	Hand wheel	Aluminium - diecasting	

Description	Dimensions [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Hand wheel-Ø	W	70	80	80	110	130	150	150
Face-to-face dimension	L	80	90	100	110	130	150	165
Width to flange*	B	12	14	14	16	16	18	20
Height	H	140	150	170	210	255	280	320
Flange diameter*	D	115	140	150	165	185	200	220
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx.)	Kg	2.6	4.0	4.9	6.8	8.0	12.2	19.0

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Bronze body, screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.10F000

Valve with opening indicator, flat flange with groove on both flanges

Part No. 09420.X.11F000

Valve with opening indicator, flat flange with groove on both flanges and locking device without lock

Part No. 09420.X.12F000

Valve with opening indicator, flat flange with groove on both flanges and locking device with lock



Available options:

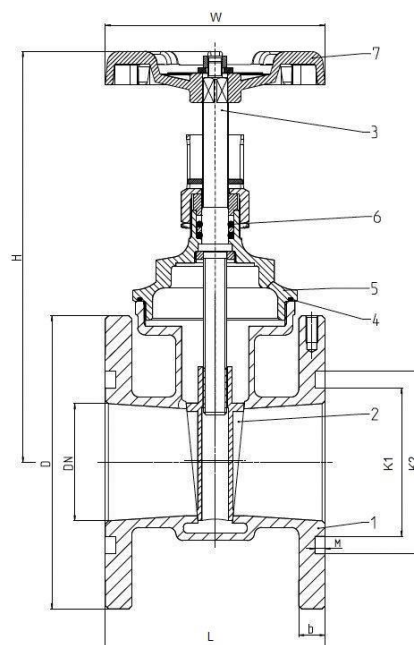
Pos	Code	Description
X	-	Please see chart below
	-	Flange personalized on request

Application Suitable for transformer oil.
Onshore Applications.

Working temperatures and pressure Up to max. 6.0 bar:
-25°C / -13°F (248K) up to +120°C / +248°F (393K)

Standards Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).
Pressure test acc.to EN 12266:2004 – Rate “A”.

Note When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



	Materials	DIN EN	ASTM
1	Body	Bronze CC491K	B 62 UNS C83600
2	Wedge	Bronze CC491K	B 62 UNS C83600
3	Stem	Brass CW614N	B 455 UNS C38500
4	Bonnet gasket	Klingsil C-4400	
5	Headpiece	Brass CW614N	B 455 UNS C28500
6	O-Ring	FPM (Viton)	
7	Hand wheel	Aluminium - diecasting	

Description		Dimensions [mm]			
Nominal size	DN	25	40	50	80
Size code	.X.	0250	0400	0500	0800
Hand wheel-Ø	W	70	80	110	150
Face-to-face dimension	L	80	100	110	150
Width to flange*	b	12	14	16	18
Height	H	138	169	208	281
Flange diameter*	D	115	150	165	200
Inner diameter of the groove	K ₁	44	61	69	101
Outer diameter of the groove	K ₂	65	82	90	125
Groove Depth	M	6	6	6	7
Wrench size across flats	S ₂	8	9	11	14
Weight (approx.)	Kg	2.8	5.3	7.3	13.4

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288 with "Guillemin" outlet

Bronze body, screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16,

Sampling point with plug and cable in inox

Part No. 09420.X.10C629

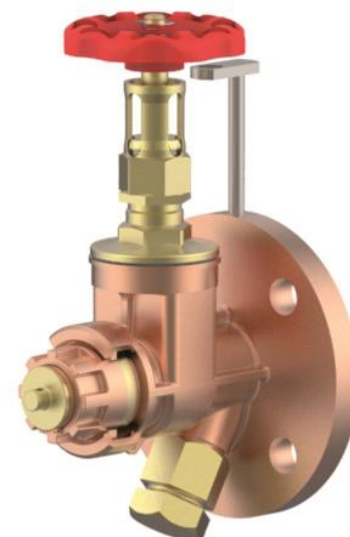
Valve with opening indicator

Part No. 09420.X.11C629

Valve with opening indicator and locking device without lock

Part No. 09420.X.12C629

Valve with opening indicator and locking device with lock

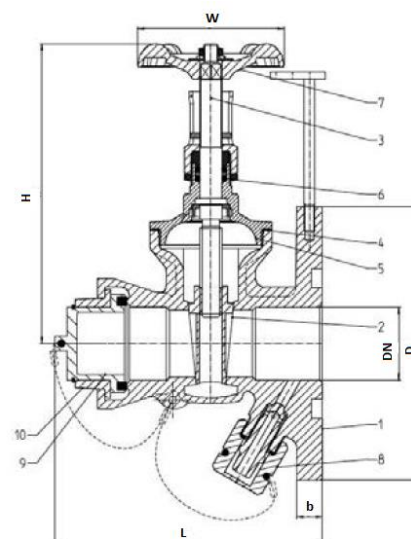


Application Suitable for transformer oil.
Onshore Applications.

Working temperatures and pressure Up to max. 6.0 bar:
-25°C / -13°F (248K) up to +120°C / +248°F (393K)

Standards Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Materials		DIN EN		ASTM
1	Body	Bronze	CC491K	B 62 UNS C83600
2	Wedge	Bronze	CC491K	B 62 UNS C83600
3	Stem	Brass	CW614N	B 455 UNS C38500
4	Bonnet gasket	Klingsil C-4400		
5	Headpiece	Brass	CW614N	B 455 UNS C38500
6	O-Ring	FPM (Viton)		
7	Hand wheel	Aluminium - diecasting		
8	Plug	Brass	CW614N	B 455 UNS C38500
9	Plug part A	Brass	CW614N	B 455 UNS C38500
10	Plug part B	Bronze	CC491K	B 62 UNS C83600

Description	Dimensions [mm]					
Nominal size	DN	20	25	40	50	80
Size code	.X.	0200	0250	0400	0500	0800
Hand wheel-Ø	W	70	70	80	110	150
Face-to-face dimension	L	110	114	146	168	190
Width to flange*	B	12	12	14	16	18
Height	H	125	137	164	174	280
Flange diameter*	D	105	115	150	165	200
Wrench size across flats	S ₂	7	8	9	11	14
Weight (approx.)	Kg	1.8	2.1	4.4	5.4	11.7

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Gate Valve

Type ***(1)**

Bronze Flanged Gate valve for transformers, PN16

Bronze body, screwed top work in brass and non rising stem.

Flange connection PN16 according to UNI EN 1092-3:2005

Available options:

Pos	Code	Description
YY	-	Please see chart below
Z	-	Flange customization at request



Application

Suitable for transformer oil.
Onshore application.

Working temperatures and pressure

Up to max. 16.0 bar: -40°C to +180°C (PTFE Packing)
Up to max. 16.0 bar: -25°C to +180°C (Viton O-Ring)

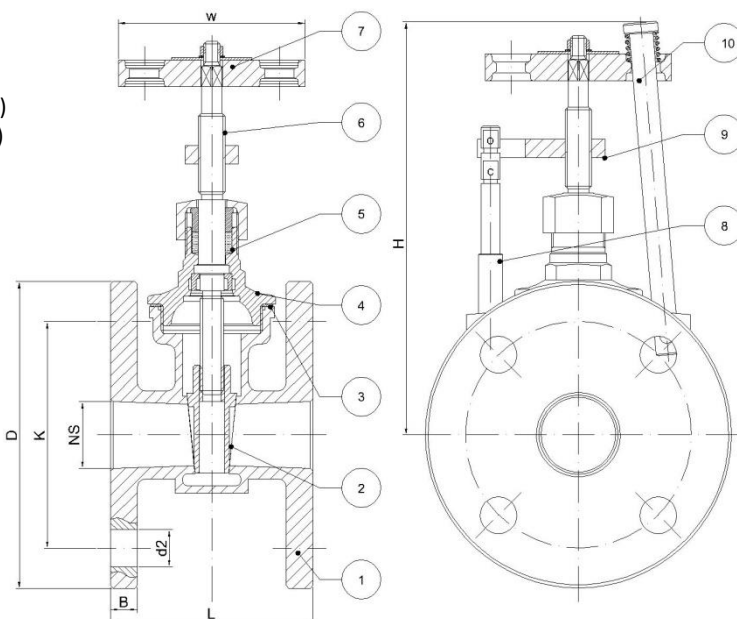
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials		
1 Body	Bronze	CC491K	
2 Wedge	Bronze	CC491K	
3 Gasket	SILC 4400		
4 Bonnet	Brass	CW614N (Bronze CC491K for DN65-DN80)	
5 Packing	PTFE	(Viton for DN65)	
6 Stem	Brass	CW614N	
7 Hand wheel	Aluminium		
8 Indicator	Brass	CW614N	
9 Slider	Bronze	CC491K	
10 Locking dev.	Brass	CW614N	

Description	Dimensions [mm]							
Nominal size	DN	15	25	32	40	50	65	80
Size code	.X.	0150	0250	0320	0400	0500	0650	0800
Hand wheel-Ø	W	50	70	80	80	90	130	130
Face-to-face dimension	L	77	77	86	120	135	160	185
Width to flange*	B	8	10	12	11	13	16	15
Height	H	130	150	185	200	220	275	290
Flange diameter*	D	95	115	140	150	165	185	200
Distance between holes*	K	65	85	100	110	125	145	160
N° and holes diameter*	n x d ₂	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

One Flanged Gate valve

Type ***(2)**

Bronze Gate valve for transformers, PN16, with one flange and one threaded end with plug.

Bronze body, screwed top work in brass and non rising stem.

Flange connection according to UNI EN 1092-3:2005

Available options:

Pos	Code	Description
YY	-	Please see chart below
Z	-	Flange customization at request



Application

Suitable for transformer oil.
Onshore application.

Working temperatures and pressure

Up to max. 16.0 bar:
-40°C / -40°F (233K) to +180°C / +356°F (453K)

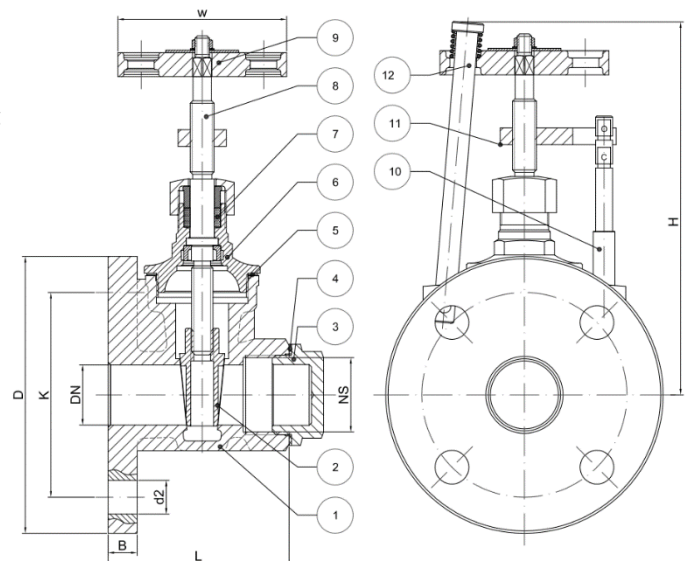
IMPORTANT:

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Materials		DIN EN		ASTM
1	Body	Bronze	CC491K	B 62 UNS C83600
2	Wedge	Bronze	CC491K	B 62 UNS C83600
3	Plug	Brass	CW614N	B 455 UNS C38500
4	Gasket	Silc 4400		
5	Gasket	Silc 4400		
6	Bonnet	Brass	CW614N	B 455 UNS C38500
7	Packing	PTFE		
8	Stem	Brass	CW614N	B 455 UNS C38500
9	Hand wheel	Aluminium		
10	Indicator	Brass	CW614N	B 455 UNS C38500
11	Slider	Bronze	CC491K	B 62 UNS C83600
12	Locking dev.	Brass	CW614N	B 455 UNS C38500



Description	Dimensions [mm]				
Nominal size	DN	15	25	40	50
Size code	.X.	0150	0250	0400	0500
Thread end	NS	1/2"	1"	1 1/2"	2"
Hand wheel-	W	50	70	80	90
Face-to-face dimension	L	65.5	75	120	139
Width to flange*	B	8	12	11	13
Height	H	130	150	200	220
Flange diameter*	D	95	115	150	165
Distance between holes*	K	65	85	110	125
N° and holes diameter*	n x d ₂	4 x 14	4 x 14	4 x 18	4 x 18

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Globe Valves

Type **03021**

Bronze Flanged Globe valve for Transformers, PN16, PTFE seat

Flange connection according to UNI EN 1092-3 : 2005

Available options:

Pos	Code	Description
YY	-	Please see chart below
Z	-	Flange customization at request

Optional accessories:

Valve with red or black Hand wheel
Valve without Indicator
Valve with indicator
Valve with indicator and locking device

Notes:

Images of products are purely indicative and may therefore not be fully representative of the characteristics of the product, for differing colors, sizes or accessories.

Application

Suitable for transformer oil.
Onshore application.

Working temperatures and pressure

Up to max. 16.0 bar: -25°C to +180°C (Viton O-Rings)
Up to max. 16.0 bar: -40°C to +180°C (PTFE Packing)

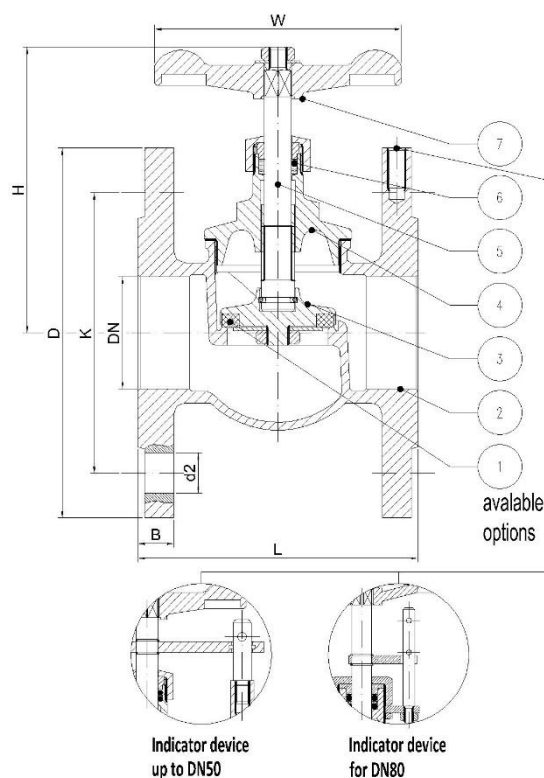
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Note:

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Materials		DIN EN		ASTM	
1	Seal	For all sizes	PTFE		
2	Body	For all sizes	Bronze	CC491K	B 62 UNS C83600
3	Disc	For all sizes	Brass	CW614N	B 455 UNS C38500
4	Bonnet	For DN80	Brass	CW614N	B 455 UNS C38500
5	Stem	For all sizes	Bronze	CC491K	B 62 UNS C83600
6	Packing	For all sizes	O-Ring	CW614N	B 455 UNS C38500
7	Indicator	For all sizes	Viton		
8	Slider	For all sizes	Brass	CW614N	B 455 UNS C38500
9	Hand wheel	For all sizes	Aluminium diecasting		

Description	Dimensions [mm]							
Nominal size	DN	15	20	25	32	40	50	80
Size code	.X.	0150	0200	0250	0320	0400	0500	0800
Hand wheel	W	50	60	70	80	90	80	150
Height without indicator	H	80	87	95	-	117	130	234
Height with indicator	H	-	-	105	-	-	138	270
Width of flange*	B	10	12	12	14	14	16	16
Face-to-Face dimension	L	65	80	90	95	110	125	180
Flange diameter*	D	95	105	115	140	150	165	200
Distance between holes*	K	65	75	85	100	110	125	160
N° and holes diameter*	n x d ₂	4 x 14	4 x 14	4 x 14	4x18	4x18	4 x 18	8 x 18

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Ball Valve

Type ***(3)**

Bronze Ball Valve, PN10-16

Flange connection according to UNI EN 1092

Available options:

Ball in Brass
Ball in Stainless Steel
Raised Face
Flat Flange
Flat Flange with OR groove



Notes:

Images of products are purely indicative and may therefore not be fully representative of the characteristics of the product, for differing colors, sizes or accessories.

Application

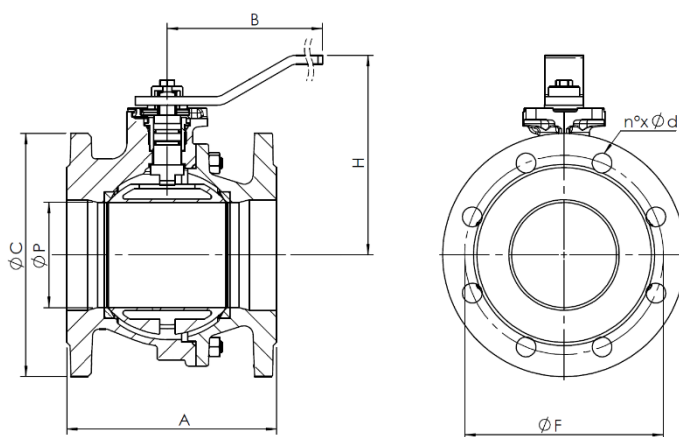
Suitable for hazardous liquids L1, non-hazardous gases G2, non-hazardous liquids G2 and water. The laws, regulations and standards are to observe for the range of application.

Working temperatures and pressure

Fluids*	Mounting	
	between Flanges	end of line
Hazardous gases G1	NO	NO
Hazardous Liquids L1	16 bar 10 bar	DN15-200 DN250 10 bar
Non-Hazardous Gases G2	16 bar 10 bar	DN15-200 DN250 10 bar
Non-Hazardous Liquids L2	16 bar	10 bar
Water**	16 bar	16 bar

*hazardous gas, liquids acc. 2014/68/EU and 1272/2008(CLP)

** for supply, distribution and discharge of water (PED 2014/68/EU 1.1.2b)



Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.

Description	Materials	Ball and Stem
Ball		Brass CW617N or Stainless Steel AISI 316
Stem		Brass CW617N or Stainless Steel AISI 316
Body and flange	Bronze CC491K	
Ball seat	Carbon reinforced PTFE	
Sliding ring	PTFE	
Packing	O-ring Viton	
Handle	Carbon steel epoxy coated	

Description	Dimensions [mm]													
Nominal size	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Size code	.X.	0150	0200	0250	0320	0400	0500	0650	0800	1000	1250	1500	2000	2500
Bore	P	15	20	25	32	40	50	63	76	95	120	145	190	240
Face-to-face	A	115	120	125	130	140	150	170	180	190	200	210	400	450
Center-to-lever	H	84	84	96	101	125	135	143	165	180	225	243	320	-
Lever	B	160	160	170	170	230	230	230	280	360	520	520	1000	101
Flange*	C	95	105	115	140	150	165	185	200	220	250	285	340	405
Distance between holes*	F	65	75	85	100	110	125	145	160	180	210	240	295	355
Holes diameter*	n°xØd	4x14	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x1	8x22	12x22	12x26
Flange ORING**	-	-	OR618	OR618	OR625	OR625	OR628	OR628	OR640	OR852	-	-	-	-

* Dimensions related to Flange PN16 according to UNI EN 1092

** only for Type with Flat Flange with OR groove

Edition 2021 - 04

Outlet Valve

Type **03199**

Outlet Valves, DIN 42568

Bronze Body and screwed topwork in brass

Outlet with cap and chain

Round /square flange, drilled acc.to DIN PN6

Part No. 03199.X.000500

Standard Design

Part No. 03199.X.010400

Design with handwheel in cast iron (red) and locking device without lock

Part No. 03199.X.020400

Design with handwheel in cast iron (red) and locking device with lock



Application

Suitable for transformer oil.

Onshore Application.

Working temperatures and pressure

Up to max. 6.0 bar:

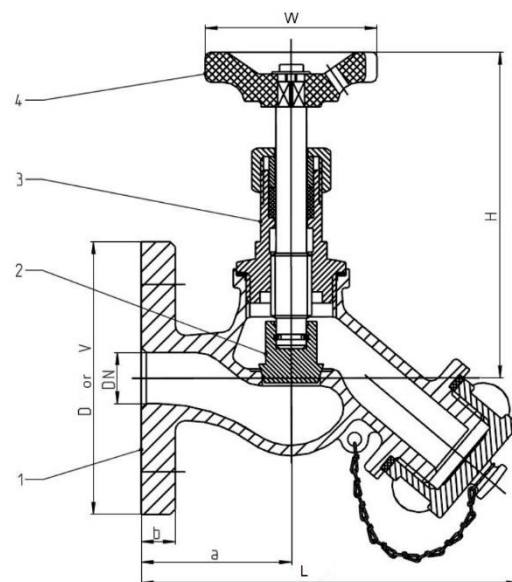
-40°C / -40°F (233K) up to +115°C / +239°F (388K)

Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials	
1 Body	Bronze	CC491K
2 Disc	Brass	CW614N
3 Headpiece	Brass	CW614N
4 Handwheel	PA6 (Polyamid)	

Description	Dimensions [mm]		
Nominal size	DN	15	32
Size code	.X.	0150	0320
Face-to-face dimension	L	110	140
Height	H	97	120
Round Flange	D	80	-
Square Flange	V	-	90
Length	a	44	55
Width of flange	b	10	13
Handwheel	W	63	80
Weight (approx.)	Kg	1.0	2.3

Sealing Kit for Outlet Valve

Type **30199**

Sealing Kit for Outlet Valves type 03199

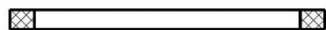
Sealing kit consisting of:

- Copper ring (headpiece/body)
- Polyamide ring (body/cap)

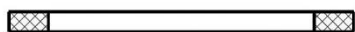
Part No. 30199.0150.0000

Suitable for:

Type	Nominal size
03199	DN15



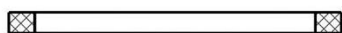
Sealing ring
(Copper)



Sealing ring
(Polyamide)



Type	Nominal size
03199	DN32



Sealing ring
(Copper)



Sealing ring
(Polyamide)



Description	Dimensions [mm]		
Nominal size	DN	15	32
Size code	.X.	0150	0320
Dimension copper ring	L	35/27x2	42x51
Dimension polyamide ring	H	32/27x2	49/42x2
Weight (approx.)	Kg	0.02	0.03

Plug Cock

Type **12170**

Plug Cock in Bronze, DIN 42544-A

With gland packing and square tap

With cap and safety catch

Part No. 12170.X.0160

Standard version with round flanges drilled acc. To DIN PN16

Part No. 55322.0003.0105

Plug key in bronze for plug cock DN25

Part No. 55322.0004.0105

Plug key in bronze for plug cock DN80



Application

Suitable for transformer oil.
Onshore Application.

Working temperatures and pressure

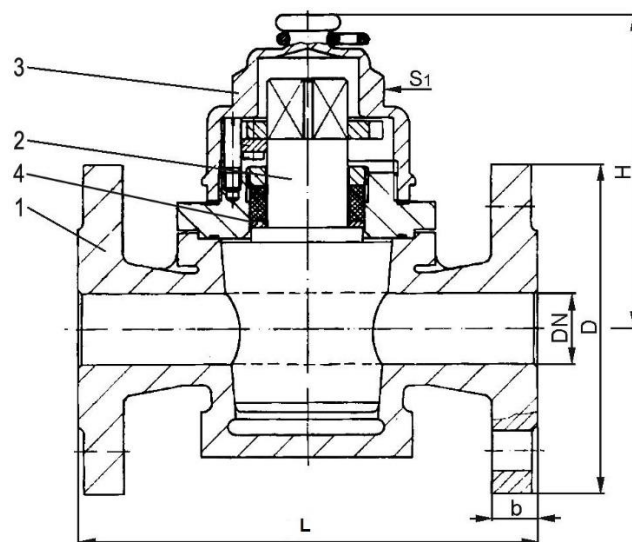
Up to max. 5.0 bar:
-25°C / -13°F (248K) up to +115°C / +239°F (388K)

Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials
1 Body	Bronze CC491K
2 Plug	Bronze CC491K
3 Cap	Bronze CC491K
4 Seal	PTFE

Description	Dimensions [mm]
Nominal size	DN 25 80
Size code	.X. 0250 0320
Face-to-face dimension	L 80 90
Height	H 140 150
Round Flange	D 115 200
Width of	b 16 20
Width across flats	S ₁ 46 71
Weight (approx.)	Kg 6.4 10.0

Three-way plug Cock in Bronze

Type **14060**

Three-way plug cock in bronze, DIN 42544

with gland packing and square tap

with T-port and round flanges drilled acc.to DIN PN16

Part No. 14060.X.9000

Standard version

Part No. 14060.X.9000OSD

Version with coating system according to DIN EN ISO 12944-5, C5-M high

Part No. 29070.0270.0000

Plug key in annealed cast iron for three-way plug cock DN 40 / DN 50

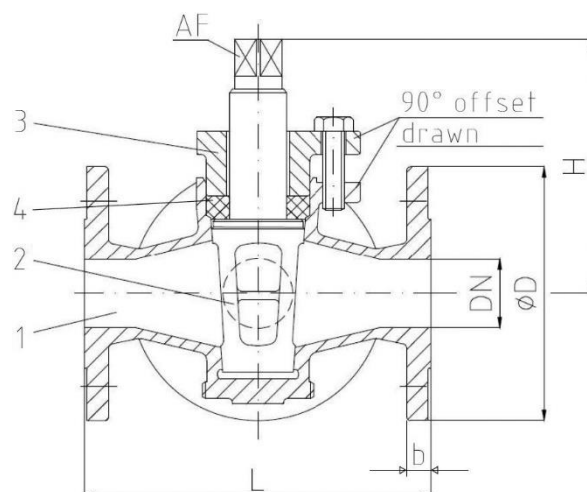
Part No. 29070.0320.0000

Plug key in annealed cast iron for three-way plug cock DN 65



Application	Suitable for transformer oil. Onshore application.
Working temperatures and pressure	Up to max. 10.0 bar: -25°C / -13°F (248K) up to +115°C / +239°F (388K)
Standards	Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials
1 Body	Bronze CC491K
2 Plug	Bronze CC491K
3 Gland	Bronze CC491K
4 Seal	PTFE

Description	Dimensions [mm]			
Nominal size	DN	40	50	65
Size code	.X.	0400	0500	0650
Face-to-face dimension	L	200	230	290
Height	H	148	176	215
Round Flange	D	150	165	185
Width of flange	b	16	16	16
Width across flats	AF	27	27	32
Weight (approx.)	Kg	10.5	16.0	24.0

Three-way plug Cock in Bronze

Type **14170**

Three-way plug cock in bronze, DIN 42544-B

with gland packing and square tap

with cap and safety catch

with T-port and round flanges drilled acc.to DIN PN16

Part No. 14170.X.LINK

Standard version, plug position stop left

Part No. 14170.X.RECH

plug position stop right

Part No. 29070.0270.0000

Plug key in bronze for three-way plug cock DN 25

Part No. 29070.0320.0000

Plug key in bronze for three-way plug cock DN 80



Application

Suitable for transformer oil.

Onshore application.

Working temperatures and pressure

Up to max. 5.0 bar:

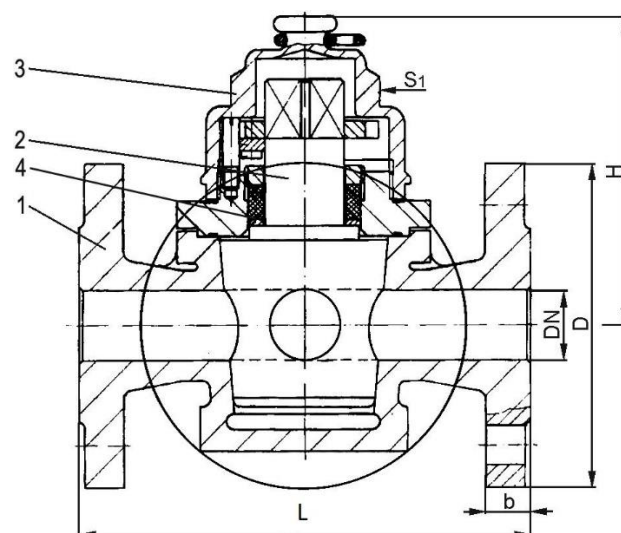
-40°C / -40°F (233K) up to +115°C / +239°F (388K)

Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials
1 Body	Bronze CC491K
2 Plug	Bronze CC491K
3 Cap	Bronze CC491K
4 Seal	PTFE

Description	Dimensions [mm]		
Nominal size	DN	25	80
Size code	.X.	0250	0800
Face-to-face dimension	L	160	290
Height	H	115	155
Round Flange	D	115	200
Width of flange	b	16	20
Width across flats	AF	46	71
Weight (approx.)	Kg	7.9	22.0

Three-way plug Cock in Bronze

Type **14175**

Three-way plug cock in bronze, DIN 42544-C

with gland packing and square tap

with cap and safety catch

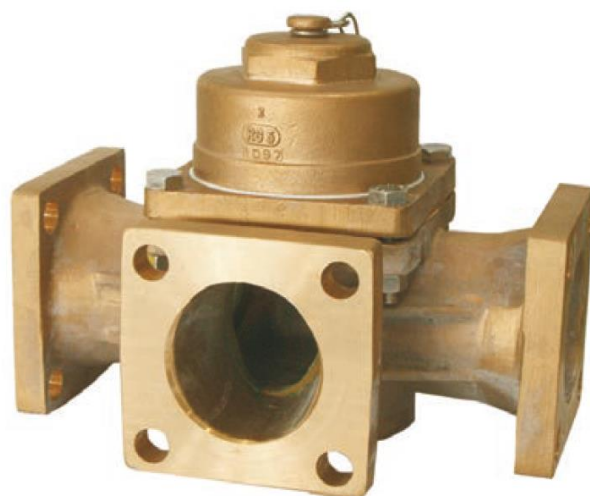
with T-port and round flanges drilled acc.to Ø132x4x Ø18

Part No. 14175.X.0160

Standard version, plug position stop left

Part No. 55322.0004.0105

Plug key in bronze for three-way plug cock DN 80



Application

Suitable for transformer oil.
Onshore application.

Working temperatures and pressure

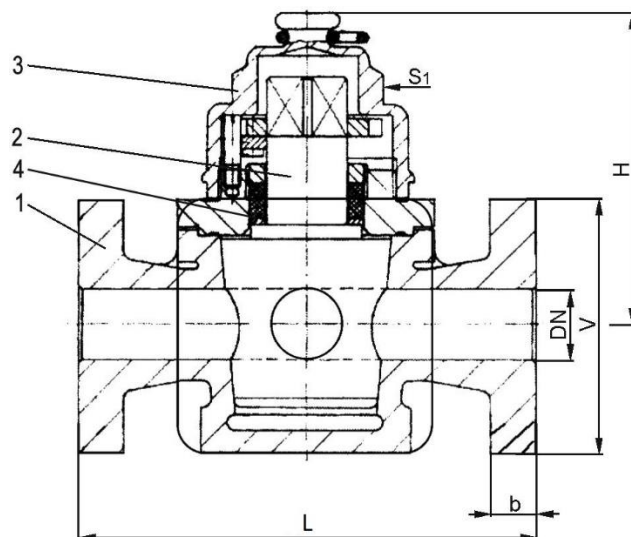
Up to max. 5.0 bar:
-25°C / -13°F (248K) up to +115°C / +239°F (388K)

Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials
1 Body	Bronze CC491K
2 Plug	Bronze CC491K
3 Cap	Bronze CC491K
4 Seal	PTFE

Description	Dimensions
Nominal size	DN 80
Size code	.X. 0800
Face-to-face dimension	FF 290
Height	H 155
Square Flange	V 125
Width of flange	b 18
Width across flats	S ₁ 71
Weight (approx.)	Kg 22.0

Spare parts for Plug Cocks in Bronze

Type **30060**, Type **30170**

Spare parts for Plug Cocks and Three-way Plug Cocks Type 14060, 12170, 14170 and 14175

Gland packing Type 14060 consisting of:

- Gland packing

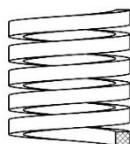
Sealing kit Types 12170, 14170 and 14175 consisting of:

- Gland seal
- Flat gasket
- O-ring

Part No. 30060.0500.0000

Suitable for:

Type	Nominal size
14060	DN50



Gland packing
(Ramie)



Part No. 30170.0250.0000

Suitable for:

Type	Nominal size
12170,14170,14175	DN25



Gland seal
(NBR)



Flat gasket
(PTFE)



O-ring
(NBR)



Part No. 30170.0800.0000

Suitable for:

Type	Nominal size
12170,14170,14175	DN80



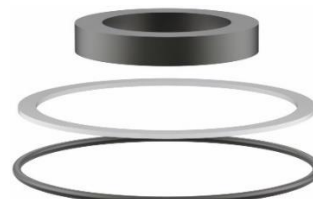
Gland seal
(NBR)



Flat gasket
(PTFE)



O-ring
(NBR)



Type 30060	Dimensions [mm]	
Nominal size	DN	50
Size code	.X.	0500
Cross Section Ramie	mm	6x6
Weight (approx.)	Kg	0.02

Type 30170	Dimensions [mm]		
Nominal size	DN	25	80
Size code	.X.	0250	0800
Dimensions gland seal	mm	39.5/28x10	77.0/54x12
Dimensions flat gasket	mm	68/63x2	125/110/2
Dimensions O-ring	mm	63x3	126.59x3.53
Weight (approx.)	Kg	0.02	0.05

Plug Key in Bronze

Type **55322**

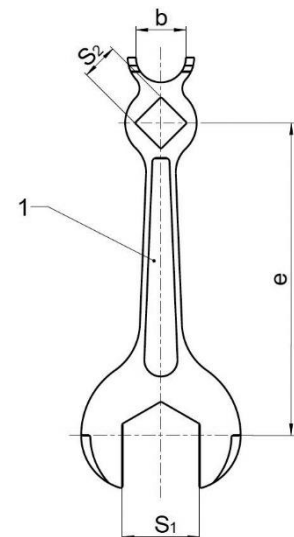
Plug Key in bronze, DIN 42544-C

Part No. 55322.X.0105

Plug key in bronze for three plug cock DN25

Part No. 55322.X.0105

Plug key in bronze for three plug cock DN 80



Description		Materials
1	Plug Key	Bronze CC491K

Description	Dimensions [mm]		
Nominal size	DN	25	80
Size code	.X.	0250	0800
Length	b	30	56
Length	e	188.5	481.5
Wrench size across flats	S ₁	46	71
Wrench size across flats	S ₂	22	41
Weight(approx.)	Kg	0.9	3.8

Valves for Offshore Applications



Gate Valve DIN EN 12288

Type **09320**

Flanged Gate Valves, PN10 - 16, DIN EN 12288

Bronze body and topwork in seawater resistant bronze

With maintenance-free gland packing (O-Ring) and non-rising stem

Flanged connection acc. To DIN EN 1092-3 PN10 or PN16

Part No. 09320.X.110202

Offshore - Valve with opening indicator and locking device without lock

Part No. 09320.X.120000

Offshore - Valve with opening indicator and locking device with lock



Application

Suitable for transformer oil.
Offshore Applications.

Working temperatures and pressure

Up to max 6.0 bar:
From -25°C / -13°F (248K) up to +120°C / +248°F (393K)

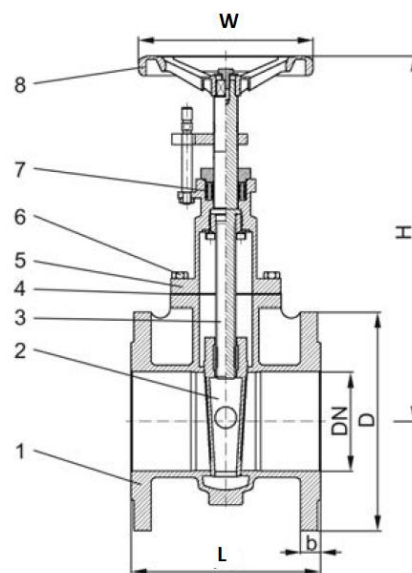
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material
1 Body	Bronze CC480K
2 Wedge	Bronze CC480K
3 Stem	Bronze CC480K
4 Bonnet gasket	Klingersil C-4400
5 Headpiece	Bronze CC480K
6 Bolts	1.4571/A4 similar A 194 B8T
7 O.Rings	FPM (Viton)
8 Handwheel	Bronze CC491K

Description	Dimension [mm]
Nominal size	DN 100 125 150 200 250
Size code	.X. 1000 1250 1500 2000 2500
Face-to-face dimension	L 190 208 210 230 250
Height	H 352 410 449 585 680
Flange Diameter	D 220 250 285 340 395
Flange connect. DIN EN 1092-3	PN 16 16 16 10 10
Width of flange	b 20 22 22 24 24
Handwheel	W 175 225 225 300 300
Max. working pressure	PN 16 16 16 10 10
Weight (approx.)	Kg 24.0 33.0 43.0 71.0 106.0

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Body and screwed topwork in seawater resistant bronze

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.000226

Standard Valve -60°C

Part No. 09420.X.010226

Valve -60°C with locking device without lock

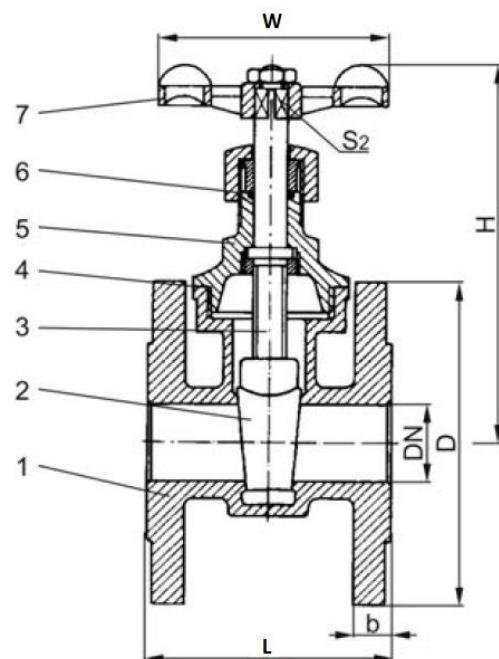
Part No. 09420.X.020226

Valve -60°C with locking device with lock

option:
Locking device →



Application	Suitable for transformer oil. Offshore Applications.
Working temperatures and pressure	Up to max. 6.0 bar: From -60°C / -76°F (213K) up to +120°C / +248°F (393K)
Standards	Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED). Pressure test acc.to EN 12266-1
Note	When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material	
1 Body	Bronze	CC480K
2 Wedge	Bronze	CC480K
3 Stem	Bronze	CC483K
4 Bonnet Gasket	Klingsil C-4400	
5 Headpiece	Bronze	CC480K
6 O-Ring	Fluorosilicone	
7 Hand wheel	Bronze	CC491K

Description	Dimension [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Face-to-face dimension	L	80	90	100	110	130	150	165
Height	H	120	135	160	190	230	250	295
Flange diameter*	D	115	140	150	165	185	200	220
Width to flange*	b	12	14	14	16	16	18	20
Hand wheel-Ø	W	80	100	100	125	140	150	150
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx.)	Kg	2.5	3.9	4.9	7.0	9.5	12.1	19.0

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Body and screwed topwork in seawater resistant bronze

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.100226

Valve -60°C with opening indicator

Part No. 09420.X.110226

Valve -60°C with opening indicator and locking device without lock

Part No. 09420.X.120226

Valve -60°C with opening indicator and locking device with lock

option:

Locking device →



Application

Suitable for transformer oil.

Offshore applications.

Working temperatures and pressure

Maximum operating pressure: 6.0 [bar]

From -60°C / -76°F (213K) up to +120°C / +248°F (393K)

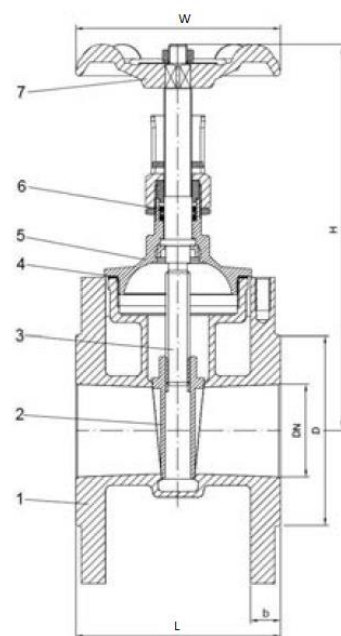
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material	
1 Body	Bronze	CC480K
2 Wedge	Bronze	CC480K
3 Stem	Bronze	CC483K
4 Bonnet Gasket	Klingsil C-4400	
5 Headpiece	Bronze	CC480K
6 O-Ring	Fluorosilicone	
7 Hand wheel	Bronze	CC491K

Description	Dimension [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Face-to-face dimension	L	80	90	100	110	130	150	165
Height	H	145	160	175	220	260	280	320
Flange diameter*	D	115	140	150	165	185	200	220
Width to flange*	b	12	14	14	16	16	18	20
Hand wheel-Ø	W	80	100	100	125	140	150	150
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx.)	Kg	2.6	4.0	4.9	6.8	8.0	12.2	19.0

Outlet Valve

Type **03199**

Outlet Valves, DIN 42568

Bronze Body and screwed topwork in seawater resistant bronze

Outlet with cap and steel cable

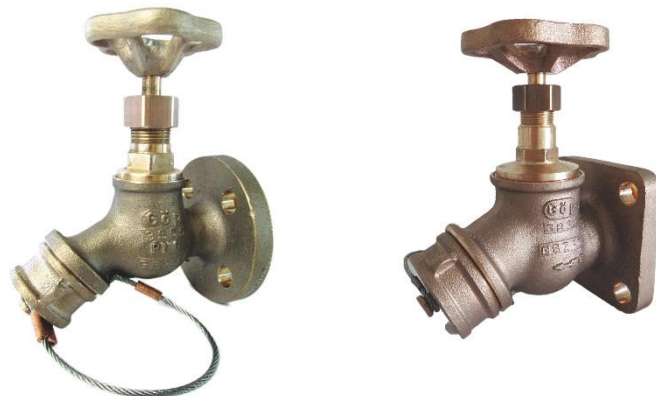
Round /square flange, drilled acc.to DIN PN6

Part No. 03199.X.110212

Offshore Design with opening indicator and locking device without lock

Part No. 03199.X.120212

Offshore Design with opening indicator and locking device with lock



Application

Suitable for transformer oil.
Offshore Application.

Working temperatures and pressure

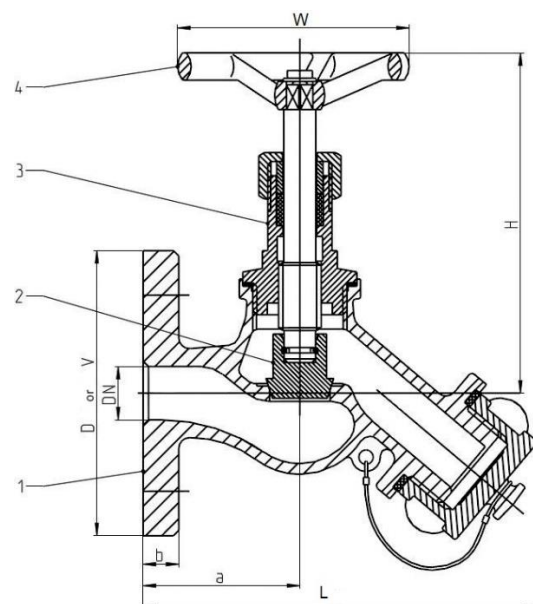
Up to max. 6.0 bar:
-60°C / -76°F (213K) up to +115°C / +239°F (388K)

Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	DIN EN	ASTM
1 Body	Bronze CC480K	B30 UNS C90700
2 Disc	Brass CW452N	B103 UNS C51900
3 Headpiece	Bronze CC483K	B30 UNS C90800
4 Handwheel	Bronze CC491K	B62 UNS C83600

Description	Dimensions [mm]		
Nominal size	DN	15	32
Size code	.X.	0150	0320
Face-to-face dimension	L	110	130
Height	H	97	120
Round Flange	D	80	-
Square Flange	V	-	90
Length	a	44	55
Width of flange	b	10	13
Handwheel	W	63	80
Weight (approx.)	Kg	1.0	2.3

Valves for Low Temperature Applications



Gate Valve DIN EN 12288

Type **09320**

Flanged Gate Valves, PN10 - 16, DIN EN 12288

Bronze body and topwork

With maintenance-free gland packing (O-Ring) and non-rising stem

Flanged connection acc. To DIN EN 1092-3 PN10 or PN16

Part No. 09320.X.110200

Valve -60°C with opening indicator and locking device without lock

Part No. 09320.X.120200

Valve -60°C with opening indicator and locking device with lock



Application

Suitable for transformer oil.

Low Temperature applications.

Working temperatures and pressure

Up to max 6.0 bar:

From -60°C / -76°F (2138K) up to +120°C / +248°F (393K)

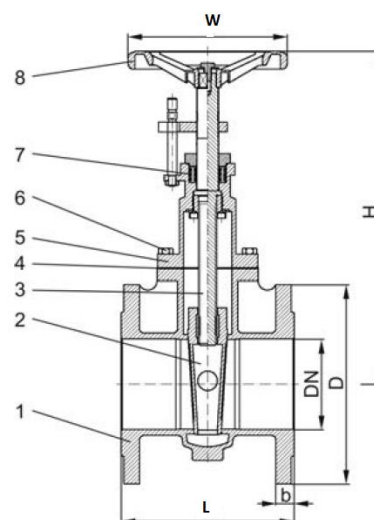
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material
1 Body	Bronze CC491K
2 Wedge	Bronze CC491K
3 Stem	Brass CW614N
4 Bonnet gasket	Klingersil C-4400
5 Headpiece	Bronze CC491K
6 Bolts	1.4571/A4 similar A 194 B8T
7 O.Rings	Fluor-silicon
8 Handwheel	Bronze CC491K

Description	Dimension [mm]					
Nominal size	DN	100	125	150	200	250
Size code	.X.	1000	1250	1500	2000	2500
Face-to-face dimension	L	190	208	210	230	250
Height	H	352	410	449	585	680
Flange Diameter	D	220	250	285	340	395
Flange connect. DIN EN 1092-3	PN	16	16	16	10	10
Width of flange	b	20	22	22	24	24
Handwheel	W	175	225	225	300	300
Max. working pressure	PN	16	16	16	10	10
Weight (approx.)	Kg	23.5	32.0	43.0	71.0	106.0

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Body and screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.000200

Standard Valve -60°C

Part No. 09420.X.010200

Valve -60°C with locking device without lock

Part No. 09420.X.020200

Valve -60°C with locking device with lock

option:
Locking device →



Application

Suitable for transformer oil.
Low Temperature Applications.

Working temperatures and pressure

Up to max 6.0 bar:
From -60°C / -76°F (213K) up to +120°C / +248°F (393K)

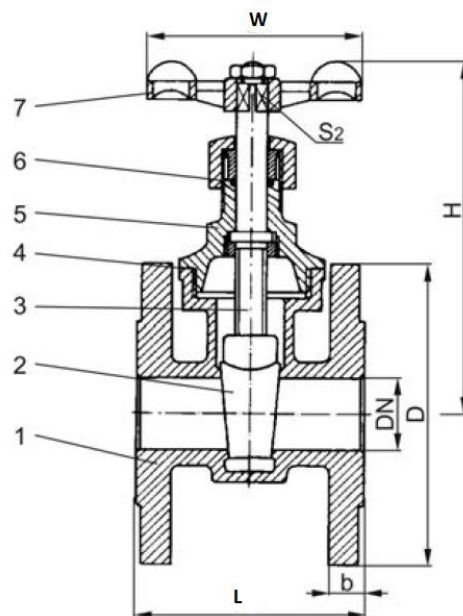
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material
1 Body	Bronze CC480K
2 Wedge	Bronze CC480K
3 Stem	Brass CW614N
4 Bonnet Gasket	Klingersil C-4400
5 Headpiece	Brass CW614N
6 O-Ring	Fluorosilicone
7 Hand wheel	Bronze CC491K

Description	Dimension [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Face-to-face dimension	L	80	90	100	110	130	150	165
Height	H	120	135	160	190	230	250	295
Flange diameter*	D	115	140	150	165	185	200	220
Width to flange*	b	12	14	14	16	16	18	20
Hand wheel-Ø	W	80	100	100	125	140	150	150
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx.)	Kg	2.5	3.9	4.9	7.0	9.5	12.1	19.0

Gate Valve

Type **09420**

Flanged Gate valve for transformers, PN16, DIN EN 12288

Bronze Body and screwed topwork in brass

With maintenance-free grand packing (O-ring) and non-rising stem

Flanged connection acc.to DIN EN 1092-3 PN16

Part No. 09420.X.100200

Valve -60°C with opening indicator

Part No. 09420.X.010200

Valve -60°C with opening indicator and locking device without lock

Part No. 09420.X.020200

Valve -60°C with opening indicator and locking device with lock

option:
Locking device →



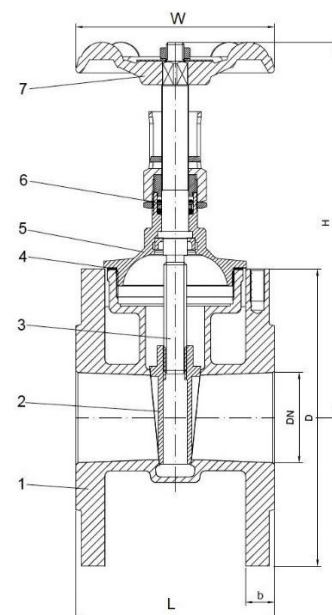
Application Suitable for transformer oil.

Working temperatures and pressure Maximum operating pressure: 6.0 [bar]
From -60°C / -76°F (213K) up to +120°C / +248°F (393K)

Standards Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266-1

Note When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Material
1 Body	Bronze CC491K
2 Wedge	Bronze CC491K
3 Stem	Brass CW614N
4 Bonnet Gasket	Klingersil C-4400
5 Headpiece	Brass CW614N from DN25 to DN50 Bronze CC491K from DN65 to DN100
6 O-Ring	Fluorosilicone
7 Hand wheel	Bronze CC491K

Description	Dimension [mm]							
Nominal size	DN	25	32	40	50	65	80	100
Size code	.X.	0250	0320	0400	0500	0650	0800	1000
Face-to-face dimension	L	80	90	100	110	130	150	165
Height	H	145	160	175	220	260	280	320
Flange diameter*	D	115	140	150	165	185	200	220
Width of flange*	b	12	14	14	16	16	18	20
Hand wheel-Ø	W	80	100	100	125	140	150	150
Wrench size across flats	S ₂	8	9	9	11	12	14	14
Weight (approx.)	Kg	2.6	4.0	4.9	6.8	8.0	12.2	19.0

Gate Valve

Type ***(4)**

Bronze Flanged Gate valve for transformers, PN16

Bronze body, screwed top work in brass and non rising stem.

Flange connection PN16 according to UNI EN 1092-3:2005

Available options:

Pos	Code	Description
YY	-	Please see chart below
Z	-	Flange customization at request



Notes:

Images of products are purely indicative and may therefore not be fully representative of the characteristics of the product, for differing colors, sizes or accessories.

In this case, for low temperature application the handwheel would be in bronze.

Application

Suitable for transformer oil.
Low Temperature Application

Working temperatures and pressure

Up to max. 16.0 bar: -50°C to +180°C (FluoroSilicone O-Ring)

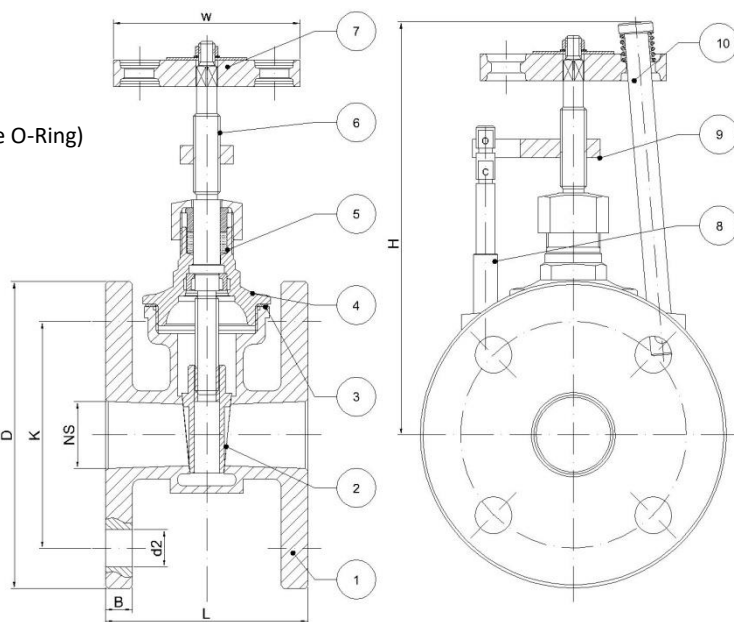
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Note

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Description	Materials	
1 Body	Bronze	CC491K
2 Wedge	Bronze	CC491K
3 Gasket	SILC 4400	
4 Bonnet	Brass	CW614N (Bronze CC491K for DN65-DN80)
5 Packing	PTFE	(Viton for DN65)
6 Stem	Brass	CW614N
7 Hand wheel	Bronze	
8 Indicator	Brass	CW614N
9 Slider	Bronze	CC491K
10 Locking dev.	Brass	CW614N

Description	Dimensions [mm]							
Nominal size	DN	15	25	32	40	50	65	80
Size code	.X.	0150	0250	0320	0400	0500	0650	0800
Hand wheel-Ø	W	50	70	80	80	90	130	130
Face-to-face dimension	L	77	77	86	120	135	160	185
Width to flange*	B	8	10	12	11	13	16	15
Height	H	130	150	185	200	220	275	290
Flange diameter*	D	95	115	140	150	165	185	200
Distance between holes*	K	65	85	100	110	125	145	160
N° and holes diameter*	n x d ₂	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Globe Valves

Type **03021**

Bronze Flanged Globe valve for Transformers, PN16, Ptfе seat

Flange connection according to UNI EN 1092-3 : 2005

Available options:

Pos	Code	Description
YY	-	Please see chart below
Z	-	Flange customization at request

Optional accessories:

Valve with red or black Hand wheel
Valve without Indicator
Valve with indicator
Valve with indicator and locking device

Notes:

Images of products are purely indicative and may therefore not be fully representative of the characteristics of the product, for differing colors, sizes or accessories.

In this case, for low temperature application the handwheel would be in bronze.



Application

Suitable for transformer oil.
Low Temperature application.

Working temperatures and pressure

Up to max. 16.0 bar: -50°C to +180°C (FluoroSilicone O-Rings)

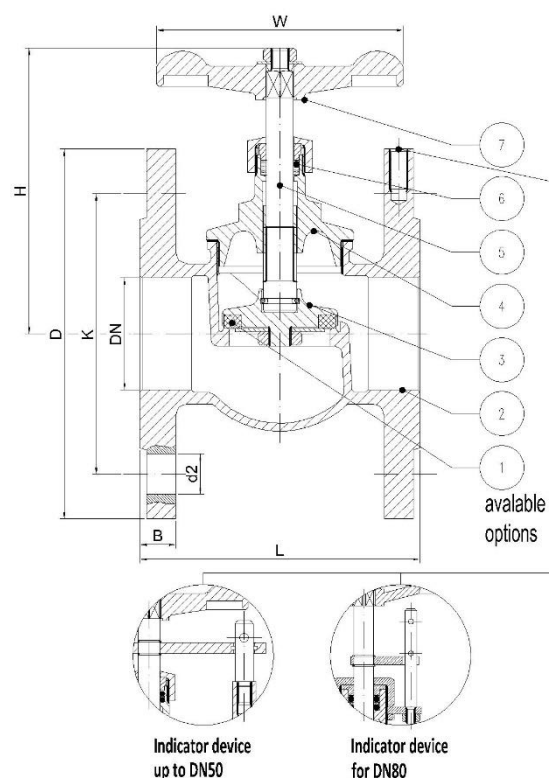
Standards

Standard marking acc.to Pressure Equipment Directive 2014/68/EU (PED).

Pressure test acc.to EN 12266:2004 – Rate “A”.

Note:

When requesting an offer or order, please indicate flow medium, working pressure and working temperature.



Materials		DIN EN		ASTM	
1	Seal	For all sizes	PTFE		
2	Body	For all sizes	Bronze	CC491K	B 62 UNS C83600
3	Disc	For all sizes	Brass	CW614N	B 455 UNS C38500
4	Bonnet	DN15 to DN65	Brass	CW614N	B 455 UNS C38500
		For DN80	Bronze	CC491K	B 62 UNS C83600
5	Stem	For all sizes	Brass	CW614N	B 455 UNS C38500
6	Packing	For all sizes	O-Ring	Viton	
7	Indicator	For all sizes	Brass	CW614N	B 455 UNS C38500
8	Slider	For all sizes	Brass	CW614N	B 455 UNS C38500
9	Hand wheel	For all sizes	Bronze		

Description		Dimensions [mm]						
Nominal size	DN	15	20	25	32	40	50	80
Size code	.X.	0150	0200	0250	0320	0400	0500	0800
Hand wheel	W	50	60	70	80	90	80	150
Height	without indicator	H	80	87	95	-	117	234
	with indicator	H	-	-	105	-	138	270
Width of flange (RF)*	B	10	12	12	14	14	16	16
Face-to-Face dimension (RF)	L	65	80	90	95	110	125	180
Flange diameter*	D	95	105	115	140	150	165	200
Distance between holes*	K	65	75	85	100	110	125	160
N° and holes diameter*	n x d ₂	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	8 x 18

* Dimensions related to Flange PN16 according to UNI EN 1092-3:2005

Valvomec Srl**Industrial Valves and Bronze Foundry**

Via Tagliaferro 1/1
13019 Varallo
Zona Industriale Roccapietra
Italy

Phone: +39 0163 492000
Fax: +39 0163 54646
Mail: sales@valvomec.it
Web : www.valvomec.com