

GATE VALVE TYPE GKA25

CHARACTERISTIC:

- Diameter - 50 -350 mm;
- Pressure - 25 bar;
- Temperature - up to 250°C for acids, bases and other aggressive media;
- up to 550°C for non-toxic media;
- Medium - acids, liquors, water, steam and other non-toxic and non aggressive media,
engine fuel and sea water

VERSIONS:

type body material / drive type / others

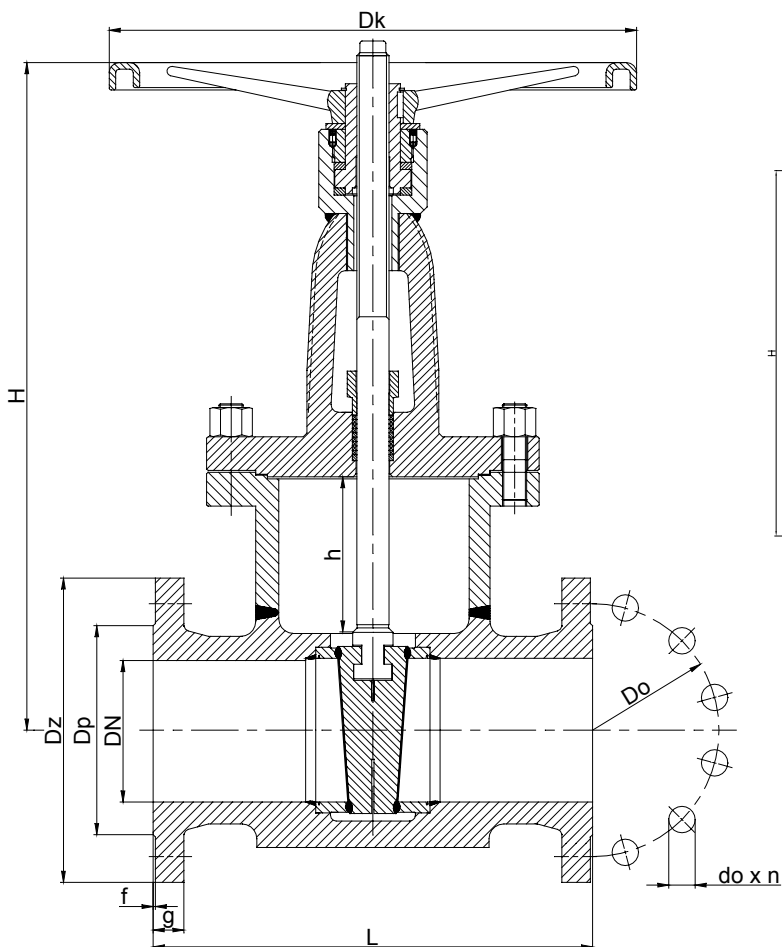
Example: **GKA25 / --- / --- / ---**

Example: **GKB25 / NA / ---**

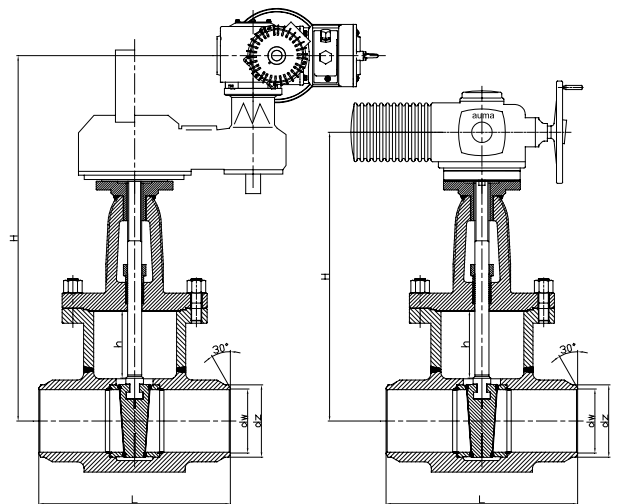
Type	Body material	Sign	Drive type	Sign	Others	Sign
X6CrNiTi18-10 (1.4541)		GKA	Hand wheel	---	-----	---
X5CrNi18-10 (1.4301)			AUMA drive	NA		
		GKB	NWA drive	NW		
X2CrNiMo17-12-2 (1.4404)			MODACT drive	NM		
			Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



EXAMPLE



MATERIALS:

Versions	GKA63	GKB63
Parts		
Body, bonnet	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Wedge	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Stem	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Packing rings	PTFE , Grafit	
Wheel	Steel	

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dp	Do	do	n	L	g.	f	H	h	Dk	Weight
50	165	102	125	18	4	250	20	3	365	65	200	39,00
65	185	122	145	18	8	290	22	3	435	78	250	56,00
80	200	138	160	18	8	310	24	3	460	93	250	62,00
100	235	162	190	22	8	350	24	3	535	112	315	97,00
125	270	188	220	26	8	400	26	3	630	146	315	164,00
150	300	218	250	26	8	450	28	3	800	174	315	265,00
200	360	278	310	26	12	550	30	3	860	233	400	335,00
250	425	335	370	30	12	650	32	3	1055	260	500	498,00
300	485	395	430	30	16	750	34	4	1179	310	500	677,00
350	555	465	490	33	16	850	38	4	1395	355	630	914,00

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	Medium	PN	Maximal working pressure at working temperature															
			20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	510°C	520°C	530°C	540°C	550°C
X6CrNiTi18-10 (1.4541)	aggressive media and no aggressive	16	bar															
X2CrNiMo17-12-2 (1.4404)			16,0	16,6	15,6	14,9	14,7	13,8	13,2	12,9	12,5	12,3	12,2	12,2	12,1	12,1	12,1	12,1
X6CrNiTi18-10 (1.4541)	aggressive media and no aggressive	25	25,0	24,8	23,3	22,1	21,1	19,9	19,2	18,6	18,2	18,0	17,7	17,7	17,6	17,6	17,5	16,9
X2CrNiMo17-12-2 (1.4404)			25,0	25,0	24,4	23,2	22,9	21,6	20,7	20,1	19,6	19,3	19,1	19,0	19,0	18,9	18,9	18,9

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS40 ; ZK40

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	40 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

Example: **ZS40 / --- / NA / ---**

Example: **ZK40 / U / --- / ---**

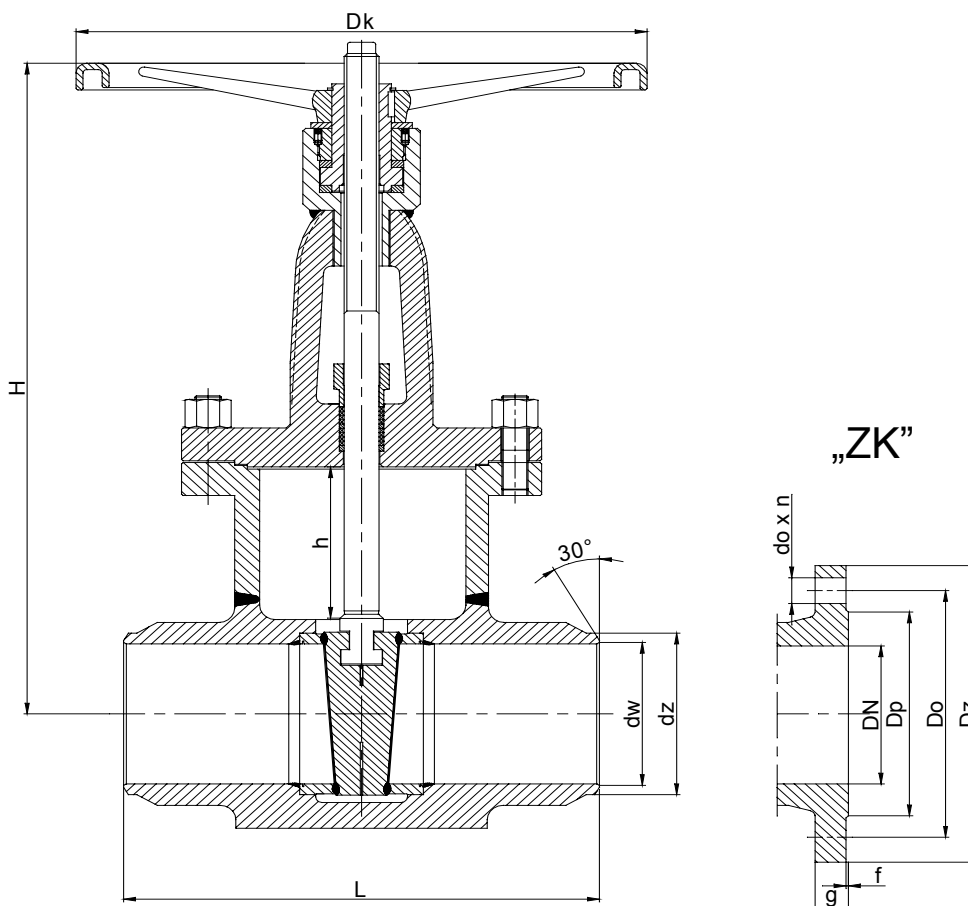
Body material	Sign
(P250GH) C 22.8	---
16Mo3	U
13CrMo4-5	A
11CrMo9-10	B
14MoV6-3	C
X10CrMoVNb9-1	E

Drive type	Sign
Hand wheel	---
AUMA drive	NA
NWA drive	NW
MODACT drive	NM

Others	Sign
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APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position. The gate valve should not be used as a flow regulating device!



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	dz	dw	L	H	h	Dk	Weight	„ZK”								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	V	54	250	365	65	200	28,20	180	102	135	22	4	250	26	3	39,00
65	77	70	290	435	78	250	40,90	205	122	160	22	8	290	26	3	56,00
80	90	82	310	460	93	250	48,70	215	138	170	22	8	310	28	3	62,00
100	115	106	350	535	112	315	70,60	250	162	200	26	8	350	30	3	97,00
125	141	131	400	630	146	315	133,90	295	188	240	30	8	400	34	3	164,00
150	170	159	450	800	174	315	215,10	345	218	280	33	12	450	36	3	265,00
200	222	207	550	860	233	400	260,00	415	285	345	36	12	550	42	3	335,00
250	276	258	650	1055	260	500	440,20	470	345	400	36	16	650	46	3	498,00
300	325	302	750	1179	310	500	604,60	530	410	460	36	16	750	52	4	677,00
350	359	330	850	1395	355	630	814,60	600	465	525	39	16	850	56	4	914,00
400	409	383	1050	1520	410	GNR	-	670	535	585	42	16	1050	60	4	-
450	457	430,5	1350	1790	460	GNR	-	-	-	-	-	-	1350	-	-	-
500	508	481	1550	1910	510	GNR	-	800	615	705	48	20	1550	60	4	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																	
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C	
(P250GH)C 22.8 (1.0460)	40	40,0	37,1	35,2	33,3	30,5	27,6	25,7	23,8	13,1	-	-	-	-	-	-	-	-	
16Mo3 (1.5415)	40	40,0	40,0	40,0	40,0	39,0	34,3	32,4	30,5	29,5	22,4	17,7	14,5	11,2	9,0	-	-	-	
13CrMo4-5 (1.7335)	40	40,0	40,0	40,0	40,0	40,0	39,8	38,1	36,2	34,3	29,3	26,1	22,0	17,9	14,9	11,6	-	-	
14MoV6-3 (1.7715)	40	40,0	40,0	40,0	40,0	40,0	40,0	40,0	40,0	39,0	39,0	38,0	28,0	25,0	22,0	16,0	14,0	-	
11CrMo9-10 (1.7383)	40	40,00	40,00	40,00	40,00	39,0	37,0	35,0	33,0	31,0	30,0	30,0	20,0	17,0	15,0	11,0	10,0	6,0	

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS63 ; ZK63

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	63 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

Example: **ZS63 / --- / NA / ---**

Example: **ZK63 / U / --- / ---**

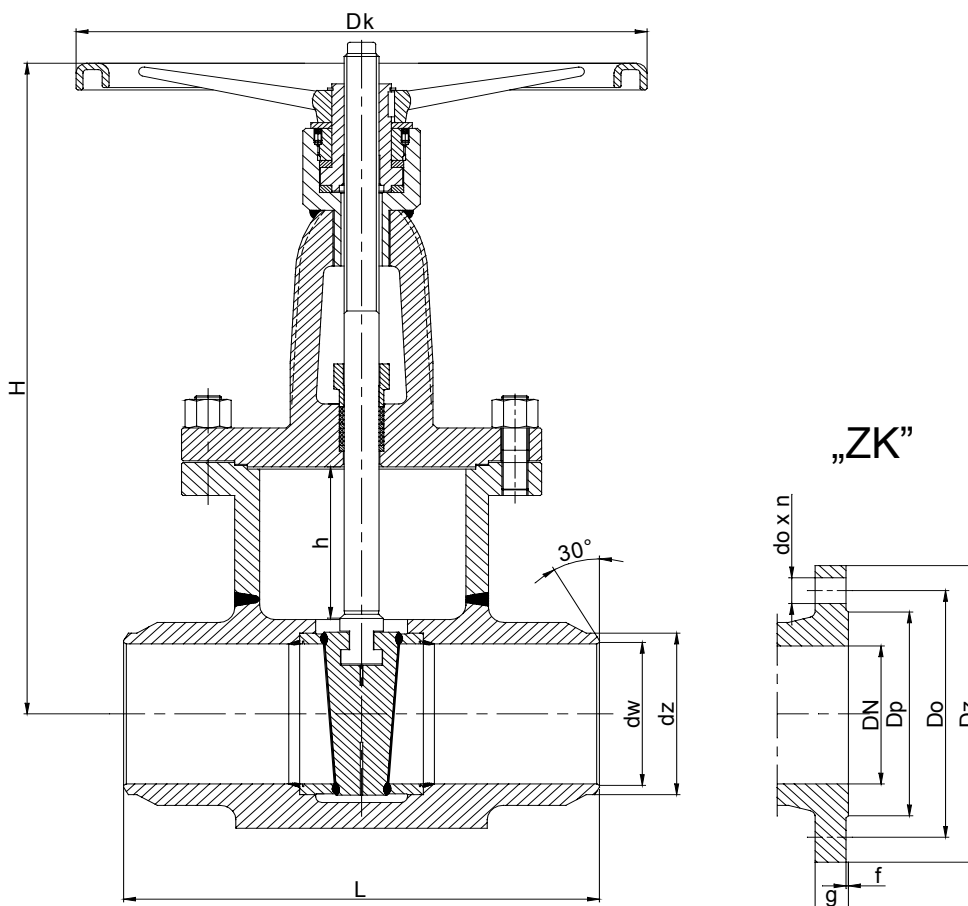
Body material	Sign
(P250GH) C 22.8	---
16Mo3	U
13CrMo4-5	A
11CrMo9-10	B
14MoV6-3	C
X10CrMoVNb9-1	E

Drive type	Sign
Hand wheel	---
AUMA drive	NA
NWA drive	NW
MODACT drive	NM
Pneumatic drive	NP

Others	Sign
-----	---

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position. The gate valve should not be used as a flow regulating device!



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	dz	dw	L	H	h	Dk	Weight	„ZK”								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	54	250	463	61	400	28,20	180	102	135	22	4	250	26	3	39,00
65	77	69	290	524	77	400	40,90	205	122	160	22	8	290	26	3	56,00
80	91	81	310	545	92	500	48,70	215	138	170	22	8	310	28	3	62,00
100	117	104	350	590	115	500	70,60	250	162	200	26	8	350	30	3	97,00
125	144	130,5	400	700	140	500	133,90	295	188	240	30	8	400	34	3	164,00
150	172	156,5	450	760	160	700	215,10	345	218	280	33	12	450	36	3	265,00
200	223	204,5	550	920	225	700	260,00	415	285	345	36	12	550	42	3	335,00
250	278	255	650	1180	270	850	440,20	470	345	400	36	16	650	46	3	498,00
300	329	301	750	1540	325	800	604,60	530	410	460	36	16	750	52	4	677,00
350	by customers acceptance							600	465	525	39	16	850	56	4	914,00
400	by customers acceptance							670	535	585	42	16	1050	60	4	-
450	by customers acceptance							-	-	-	-	-	1350	-	-	-
500	by customers acceptance							800	615	705	48	20	1550	60	4	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	63	63,00	58,50	55,50	52,50	48,00	43,50	40,50	37,50	20,70	-	-	-	-	-	-	-	
16Mo3 (1.5415)	63	63,00	63,00	63,00	63,00	61,50	54,00	51,00	48,00	46,50	35,30	27,90	17,70	14,10	-	-	-	
13CrMo4-5 (1.7335)	63	63,00	63,00	63,00	63,00	63,00	62,70	60,00	57,00	54,00	46,20	41,10	28,20	23,40	18,30	12,00	9,90	
14MoV6-3 (1.7715)	63	63,00	63,00	63,00	63,00	63,00	63,00	63,00	62,70	60,90	60,50	57,90	44,70	39,30	33,90	25,80	21,90	
11CrMo9-10 (1.7383)	63	63,00	63,00	63,00	63,00	63,00	63,00	61,50	58,50	55,50	46,50	40,50	30,90	27,00	23,40	17,40	15,30	

Body material	PN	Maximal working pressure at working temperature															
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C
X10CrMoVNb9-1 (1.4903)	63	63,00	60,3	54,9	49,8	45,0	40,2	36,0	31,8	28,2	24,9	21,9	19,5	16,8	14,7	12,6	10,8

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST63 ; ZKT63

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	63 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

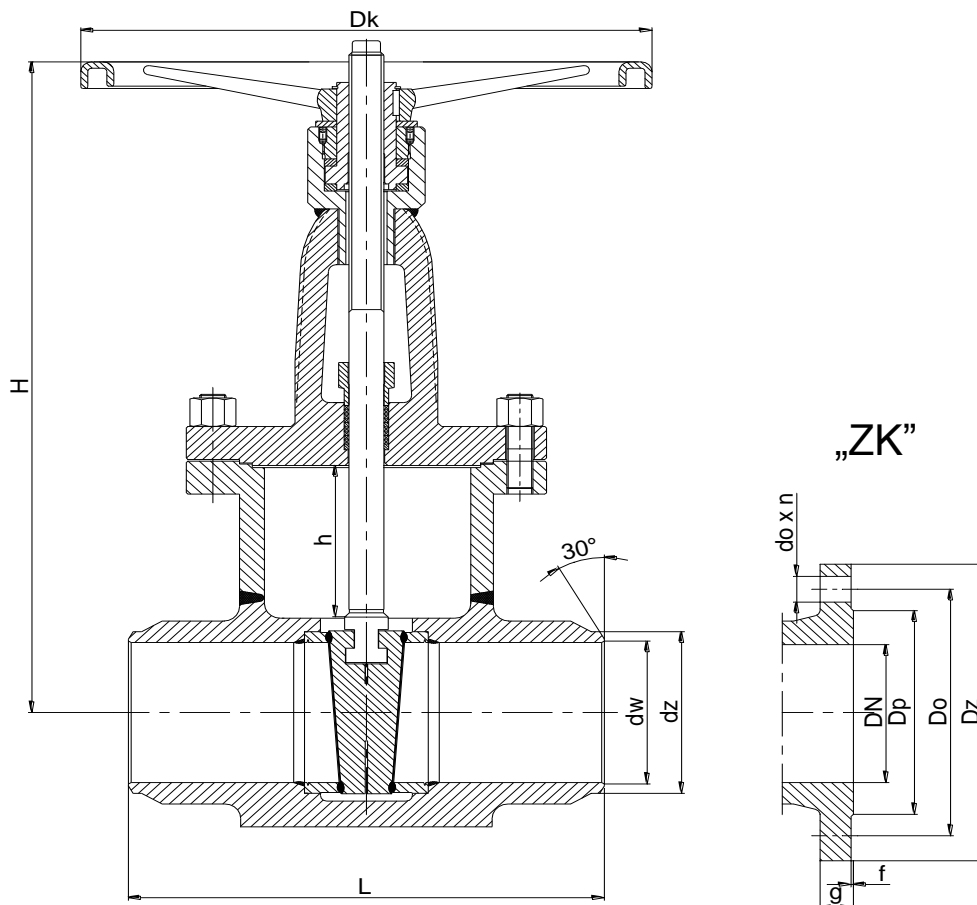
Example: ZST63 / A / NW / ---

Example: ZKT63 / B / NM / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position. The gate valve should not be used as a flow regulating device!



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	BT9					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	dz	dw	L	H	h	Dk	Weight	„ZK”								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	54	250	463	61	400	28,20	180	102	135	22	4	250	26	3	39,00
65	77	69	290	524	77	400	40,90	205	122	160	22	8	290	26	3	56,00
80	91	81	310	545	92	500	48,70	215	138	170	22	8	310	28	3	62,00
100	117	104	350	590	115	500	70,60	250	162	200	26	8	350	30	3	97,00
125	144	130,5	400	700	140	500	133,90	295	188	240	30	8	400	34	3	164,00
150	172	156,5	450	760	160	700	215,10	345	218	280	33	12	450	36	3	265,00
200	223	204,5	550	920	225	700	260,00	415	285	345	36	12	550	42	3	335,00
250	278	255	650	1180	270	850	440,20	470	345	400	36	16	650	46	3	498,00
300	329	301	750	1540	325	800	604,60	530	410	460	36	16	750	52	4	677,00
350	by customers acceptance							600	465	525	39	16	850	56	4	914,00
400	by customers acceptance							670	535	585	42	16	1050	60	4	-
450	by customers acceptance							-	-	-	-	-	1350	-	-	-
500	by customers acceptance							800	615	705	48	20	1550	60	4	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																	
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C	
(P250GH)C 22.8 (1.0460)	63	63,00	58,50	55,50	52,50	48,00	43,50	40,50	37,50	20,70	-	-	-	-	-	-	-	-	
16Mo3 (1.5415)	63	63,00	63,00	63,00	63,00	61,50	54,00	51,00	48,00	46,50	35,30	27,90	17,70	14,10	-	-	-	-	
13CrMo4-5 (1.7335)	63	63,00	63,00	63,00	63,00	63,00	62,70	60,00	57,00	54,00	46,20	41,10	28,20	23,40	18,30	12,00	9,90	-	
14MoV6-3 (1.7715)	63	63,00	63,00	63,00	63,00	63,00	63,00	63,00	62,70	60,90	60,50	57,90	44,70	39,30	33,90	25,80	21,90	-	
11CrMo9-10 (1.7383)	63	63,00	63,00	63,00	63,00	63,00	63,00	61,50	58,50	55,50	46,50	40,50	30,90	27,00	23,40	17,40	15,30	10,2	

Body material	PN	Maximal working pressure at working temperature															
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C
X10CrMoVNb9-1 (1.4903)	63	63,00	60,3	54,9	49,8	45,0	40,2	36,0	31,8	28,2	24,9	21,9	19,5	16,8	14,7	12,6	10,8

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE GKA63

CHARACTERISTIC:

- Diameter - 50 -350 mm;
- Pressure - 63 bar;
- Temperature - up to 250°C for acids, bases and other aggressive media;
- up to 550°C for non-toxic media;
- Medium - acids, liquors, water, steam and other non-toxic and non aggressive media,
engine fuel and sea water

VERSIONS:

type body material / drive type / others

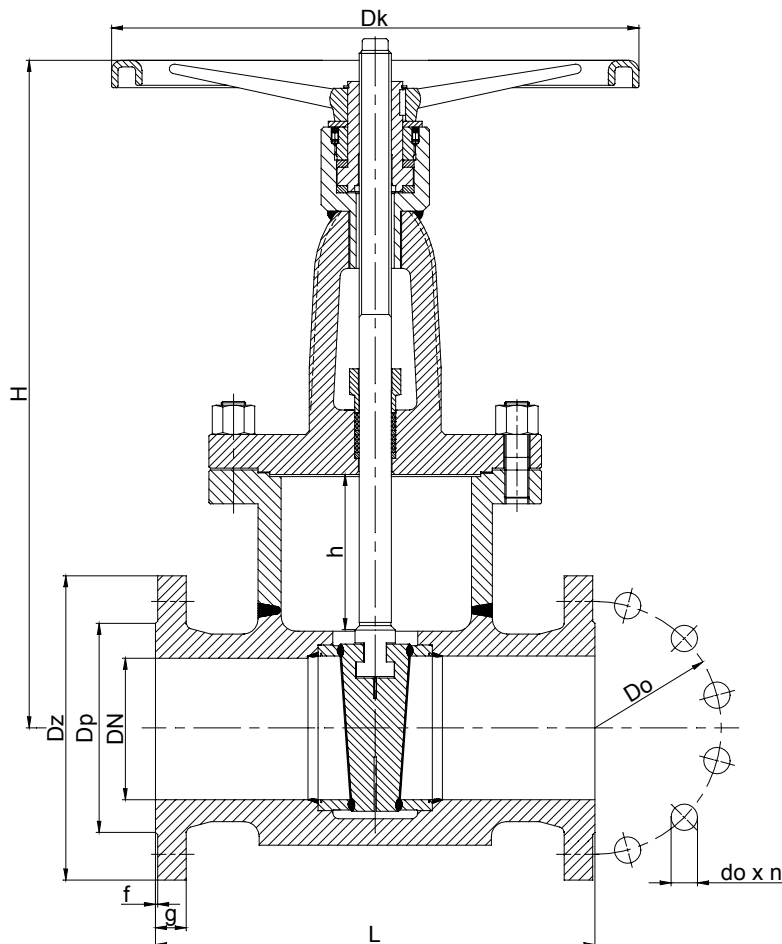
Example: **GKA63 / --- / --- / ---**

Example: **GKB63 / NA / ---**

Type Body material	Sign	Drive type	Sign	Others	Sign
X6CrNiTi18-10 (1.4541)	GKA	Hand wheel	---	-----	---
X5CrNi18-10 (1.4301)		AUMA drive	NA		
X2CrNiMo17-12-2 (1.4404)	GKB	NWA drive	NW		
		MODACT drive	NM		
		Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	GKA63	GKB63
Parts		
Body, bonnet	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Wedge	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Stem	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Packing rings	PTFE , Grafit	
Wheel	Steel	

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dp	Do	do	n	L	g.	f	H	h	Dk	Weight
50	180	102	135	22	4	250	26	3	365	65	200	39,00
65	205	122	160	22	8	290	26	3	435	78	250	56,00
80	215	138	170	22	8	310	28	3	460	93	250	62,00
100	250	162	200	26	8	350	30	3	535	112	315	97,00
125	295	188	240	30	8	400	34	3	630	146	315	164,00
150	345	218	280	33	12	450	36	3	800	174	315	265,00
200	415	285	345	36	12	550	42	3	860	233	400	335,00
250	470	345	400	36	16	650	46	3	1055	260	500	498,00
300	530	410	460	36	16	750	52	4	1179	310	500	677,00
350	600	465	525	39	16	850	56	4	1395	355	630	914,00
400	670	535	585	42	16	950	60	4	1520	410	GNR	-
450	-	-	-	-	-	1025	-	-	1790	460	GNR	-
500	800	615	705	48	20	1150	-	-	1910	510	GNR	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	Medium	PN	Maximal working pressure at working temperature															
			20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	510°C	520°C	530°C	540°C	550°C
			bar															
X6CrNiTi18-10 (1.4541)	aggressive media	63	63,0	62,4	58,8	55,8	53,1	-	-	-	-	-	-	-	-	-	-	
X2CrNiMo17-12-2 (1.4404)		63	63,0	59,7	54,3	50,1	47,1	-	-	-	-	-	-	-	-	-	-	
X6CrNiTi18-10 (1.4541)	non aggressive media	63	63,0	62,4	58,8	55,8	53,1	50,1	48,3	46,8	45,7	45,2	44,7	44,1	43,8	43,3	42,8	42,6
X2CrNiMo17-12-2 (1.4404)		63	63,0	59,7	54,3	50,1	47,1	43,5	41,7	40,5	39,4	38,9	38,4	38,4	38,4	38,2	38,2	38,2
X5CrNi18-10 (1.4301)		63	63,0	63,0	63,0	58,9	54,4	50,6	48,4	46,9	45,9	45,5	45,0	41,5	38,0	34,5	31,1	27,6

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS100 ; ZK100

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	100 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

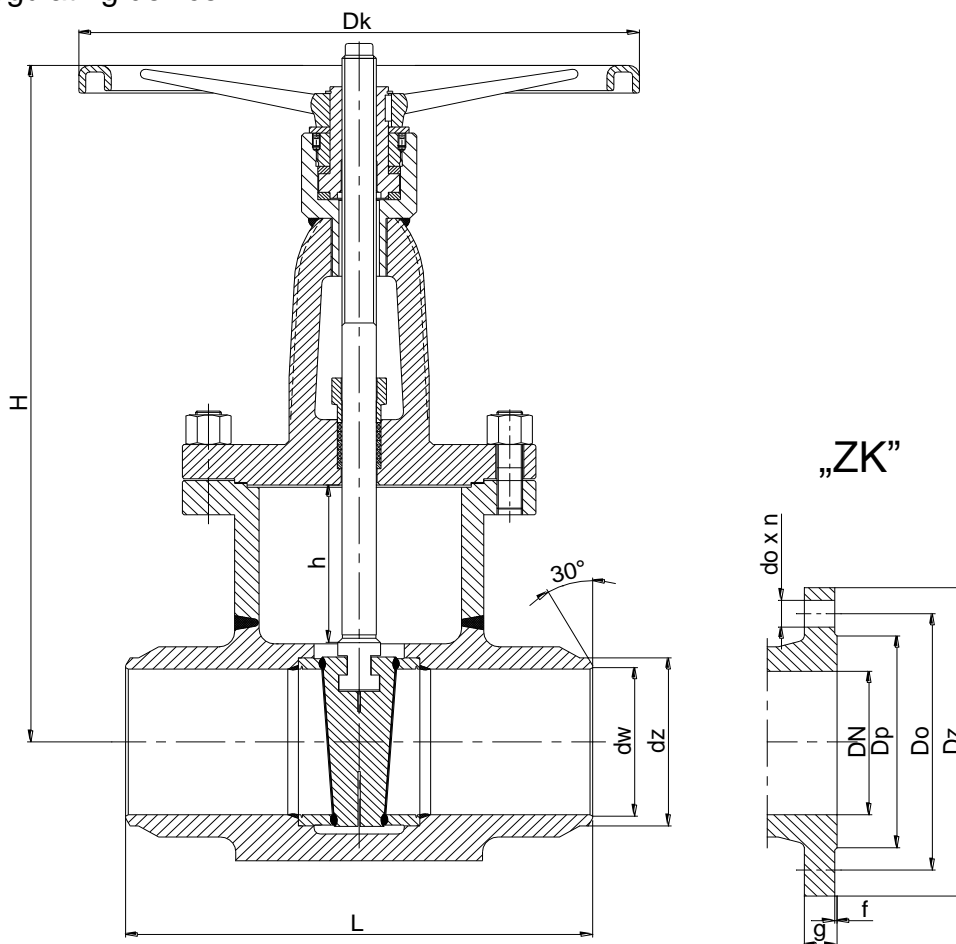
Example: **ZS100 / --- / NA / ---**

Example: **ZK100 / A / NW / ---**

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11rMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position. The gate valve should not be used as a flow regulating device!



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Gasket	Grafit + austenite					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	dz	dw	L	H	h	Dk	Weight	„ZK”								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	54	250	463	61	400	32,20	195	102	145	26	4	250	30	3	43,00
65	77	69	290	524	77	400	45,90	220	122	170	26	8	290	34	3	61,00
80	91	81	310	545	92	500	49,70	230	138	180	26	8	310	36	3	63,00
100	117	104	350	590	115	500	81,60	265	162	210	30	8	350	40	3	108,00
125	144	127	400	700	140	500	135,90	315	188	250	33	8	400	40	3	166,00
150	172	154	450	760	160	700	228,10	355	218	290	33	12	450	44	3	278,00
200	223	199,5	550	920	225	700	360,00	430	285	360	36	12	550	52	3	437,00
250	278	248,5	650	1180	270	850	591,40	505	345	430	39	12	650	60	3	692,00
300	329	295,5	750	1540	325	800	864,00	585	410	500	42	16	750	68	4	1010,00
350	by customers acceptance							655	465	560	48	16	850	74	4	1158,00
400	by customers acceptance							715	535	620	48	16	1050	-	4	-
450	by customers acceptance							-	-	-	-	-	1350	-	-	-
500	by customers acceptance							870	615	760	56	20	1550	-	4	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
		bar																
(P250GH)C 22.8 (1.0460)	100	100,00	92,80	88,00	83,30	76,10	69,00	64,20	59,50	32,80	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	100	100,00	100,00	100,00	100,00	97,60	85,70	80,90	76,10	73,80	56,00	44,20	28,00	22,30	-	-	-	-
13CrMo4-5 (1.7335)	100	100,00	100,00	100,00	100,00	100,00	99,50	95,20	90,40	85,70	73,40	65,20	44,70	37,10	29,00	19,00	15,70	-
14MoV6-3 (1.7715)	100	100,00	100,00	100,00	100,00	100,00	100,00	100,00	99,50	96,70	96,00	91,90	71,00	62,40	53,80	41,00	34,80	-
11CrMo9-10 (1.7383)	100	100,00	100,00	100,00	100,00	100,00	100,00	97,60	92,80	88,00	73,80	64,20	49,00	42,80	37,10	27,60	24,20	16,1

Body material	PN	Maximal working pressure at working temperature															
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C
		bar															
X10CrMoVNb9-1 (1.4903)	100	100,00	95,7	87,1	79,0	71,4	63,8	57,1	50,5	44,8	39,5	34,8	31,0	26,7	23,3	20,0	17,1

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST100 ; ZKT100

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	100 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

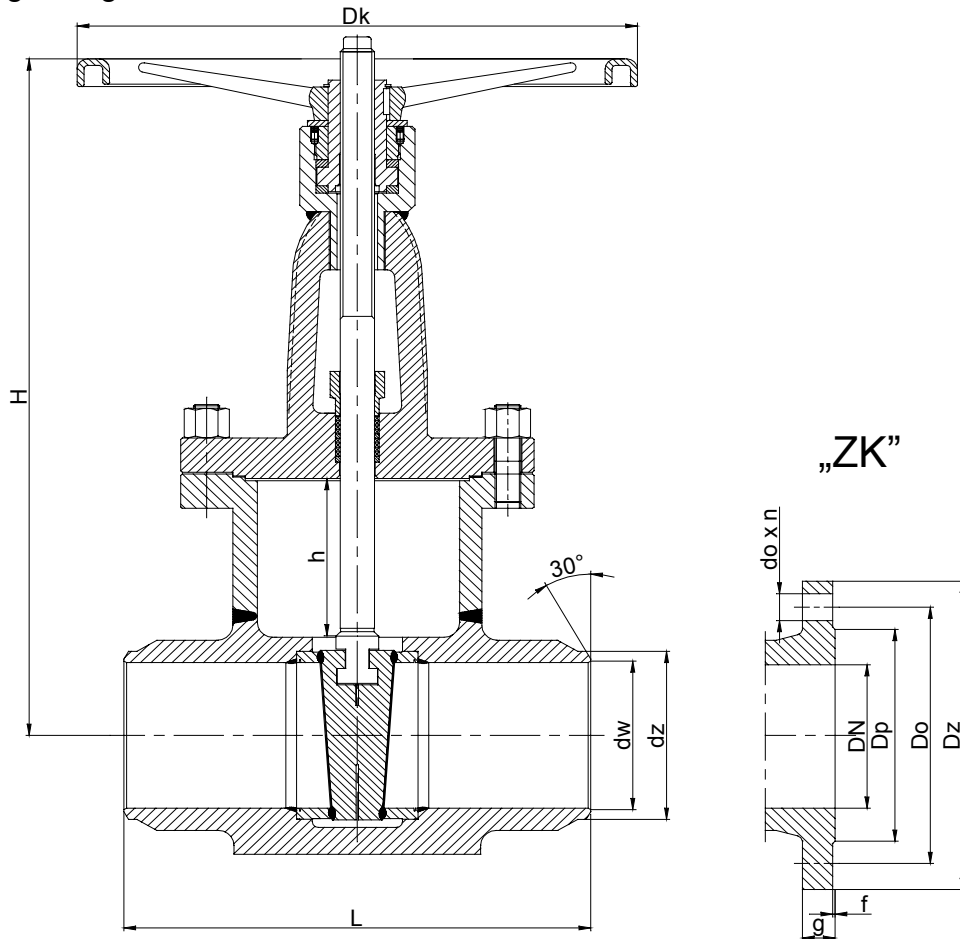
Example: **ZST100 / --- / NA / ---**

Example: **ZKT100 / U / NW / ---**

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position. The gate valve should not be used as a flow regulating device!



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	BT9					
Seat ring	Stellit					
Wedge ring	Stellit					
Gasket	Grafit + austenite					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	dz	dw	L	H	h	Dk	Weight	„ZK”								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	54	250	463	61	400	32,20	195	102	145	26	4	250	30	3	43,00
65	77	69	290	524	77	400	45,90	220	122	170	26	8	290	34	3	61,00
80	91	81	310	545	92	500	49,70	230	138	180	26	8	310	36	3	63,00
100	117	104	350	590	115	500	81,60	265	162	210	30	8	350	40	3	108,00
125	144	127	400	700	140	500	135,90	315	188	250	33	8	400	40	3	166,00
150	172	154	450	760	160	700	228,10	355	218	290	33	12	450	44	3	278,00
200	223	199,5	550	920	225	700	360,00	430	285	360	36	12	550	52	3	437,00
250	278	248,5	650	1180	270	850	591,40	505	345	430	39	12	650	60	3	692,00
300	329	295,5	750	1540	325	800	864,00	585	410	500	42	16	750	68	4	1010,00
350	by customers acceptance							655	465	560	48	16	850	74	4	1158,00
400	by customers acceptance							715	535	620	48	16	1050	-	4	-
450	by customers acceptance							-	-	-	-	-	1350	-	-	-
500	by customers acceptance							870	615	760	56	20	1550	-	4	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	100	100,00	92,80	88,00	83,30	76,10	69,00	64,20	59,50	32,80	-	-	-	-	-	-	-	
16Mo3 (1.5415)	100	100,00	100,00	100,00	100,00	97,60	85,70	80,90	76,10	73,80	56,00	44,20	28,00	22,30	-	-	-	
13CrMo4-5 (1.7335)	100	100,00	100,00	100,00	100,00	100,00	99,50	95,20	90,40	85,70	73,40	65,20	44,70	37,10	29,00	19,00	15,70	
14MoV6-3 (1.7715)	100	100,00	100,00	100,00	100,00	100,00	100,00	100,00	99,50	96,70	96,00	91,90	71,00	62,40	53,80	41,00	34,80	
11CrMo9-10 (1.7383)	100	100,00	100,00	100,00	100,00	100,00	100,00	97,60	92,80	88,00	73,80	64,20	49,00	42,80	37,10	27,60	24,20	

Body material	PN	Maximal working pressure at working temperature															
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C
X10CrMoVNb9-1 (1.4903)	100	100,00	95,7	87,1	79,0	71,4	63,8	57,1	50,5	44,8	39,5	34,8	31,0	26,7	23,3	20,0	17,1

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE GKA100

CHARACTERISTIC:

- Diameter - 50 -500 mm;
- Pressure - 100 bar;
- Temperature - up to 250°C for acids, bases and other aggressive media;
- up to 550°C for non-toxic media;
- Medium - acids, liquors, water, steam and other non-toxic and non aggressive media, engine fuel and sea water

VERSIONS:

type body material / drive type / others

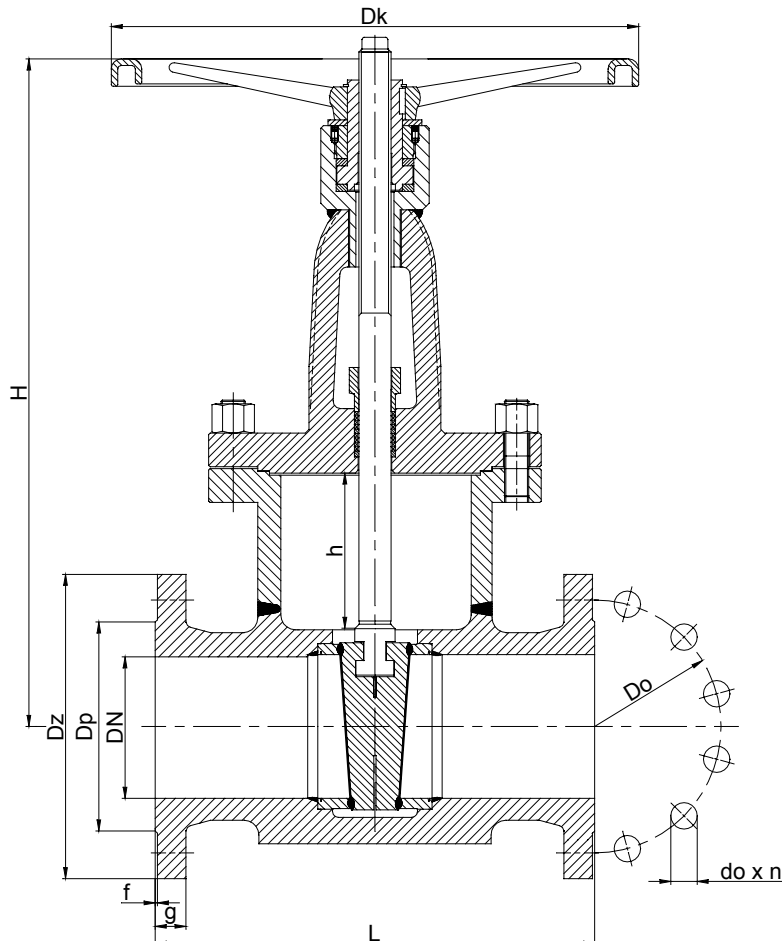
Example: **GKA100 / --- / --- / ---**

Example: **GKB100 / NA / ---**

Type	Body material	Sign	Drive type	Sign	Others	Sign
X6CrNiTi18-10	(1.4541)	GKA	Hand wheel	---	-----	---
X5CrNi18-10	(1.4301)		AUMA drive	NA		
X2CrNiMo17-12-2	(1.4404)	GKB	NWA drive	NW		
			MODACT drive	NM		
			Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	GKA100	GKB100
Parts		
Body, bonnet	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Wedge	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Stem	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Packing rings	PTFE , Grafit	
Wheel	Steel	

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dp	Do	do	n	L	g.	f	H	h	Dk	Weight
50	195	102	145	26	4	250	28	3	365	65	200	43,00
65	220	122	170	26	8	290	30	3	435	78	250	61,00
80	230	138	180	26	8	310	32	3	460	93	250	63,00
100	265	162	210	30	8	350	36	3	535	112	315	108,00
125	315	188	250	33	8	400	40	3	630	146	315	166,00
150	355	218	290	33	12	450	44	3	800	174	315	278,00
200	430	285	360	36	12	550	52	3	860	233	400	437,00
250	505	345	430	39	12	650	60	3	1055	260	500	692,00
300	585	410	500	42	16	750	68	4	1179	310	500	1010,00
350	655	465	560	48	16	850	74	4	1395	355	630	1158,00
400	715	535	620	48	16	1050	-	4	1520	410	GNR	-
450	-	-	-	-	-	1350	-	-	1790	460	GNR	-
500	870	615	760	56	4	1550	-	4	1910	510	GNR	-

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	Medium	PN	Maximal working pressure at working temperature															
			20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	510°C	520°C	530°C	540°C	550°C
			bar															
X6CrNiTi18-10 (1.4541)	aggressive media	100	100,0	99,0	93,3	88,5	84,2	-	-	-	-	-	-	-	-	-	-	-
X2CrNiMo17-12-2 (1.4404)		100	100,0	100,0	97,6	92,9	91,6	-	-	-	-	-	-	-	-	-	-	-
X6CrNiTi18-10 (1.4541)	non aggressive media	100	100,0	99,0	93,3	88,5	84,2	79,5	76,6	74,2	72,6	71,5	70,9	70,0	69,5	68,7	68,0	67,6
X2CrNiMo17-12-2 (1.4404)		100	100,0	100,0	97,6	92,9	91,6	86,3	82,7	80,4	78,3	77,3	76,2	76,1	75,9	75,8	75,6	75,6
X5CrNi18-10 (1.4301)		100	100,0	100,0	100,0	93,4	86,3	80,4	76,8	74,4	72,9	72,1	71,4	65,9	60,4	54,8	49,3	43,8
GX5CrNiMo19-11-2 (1.4408)	non aggressive media	100	100,0	81,0	73,0	64,0	60,0	55,0	52,0	50,0	49,0	49,0	48,0	48,0	48,0	47,0	47,0	47,0

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE GSA160 ; GKA160

CHARACTERISTIC:

Diameter	-	50 -350 mm;
Pressure	-	160 bar;
Temperature	-	up to 250°C for acids, bases and other aggressive media;
	-	up to 550°C for non-toxic media;
Medium	-	acids, liquors, water, steam and other non-toxic and non aggressive media, engine fuel and sea water

VERSIONS:

type body material / drive type / others

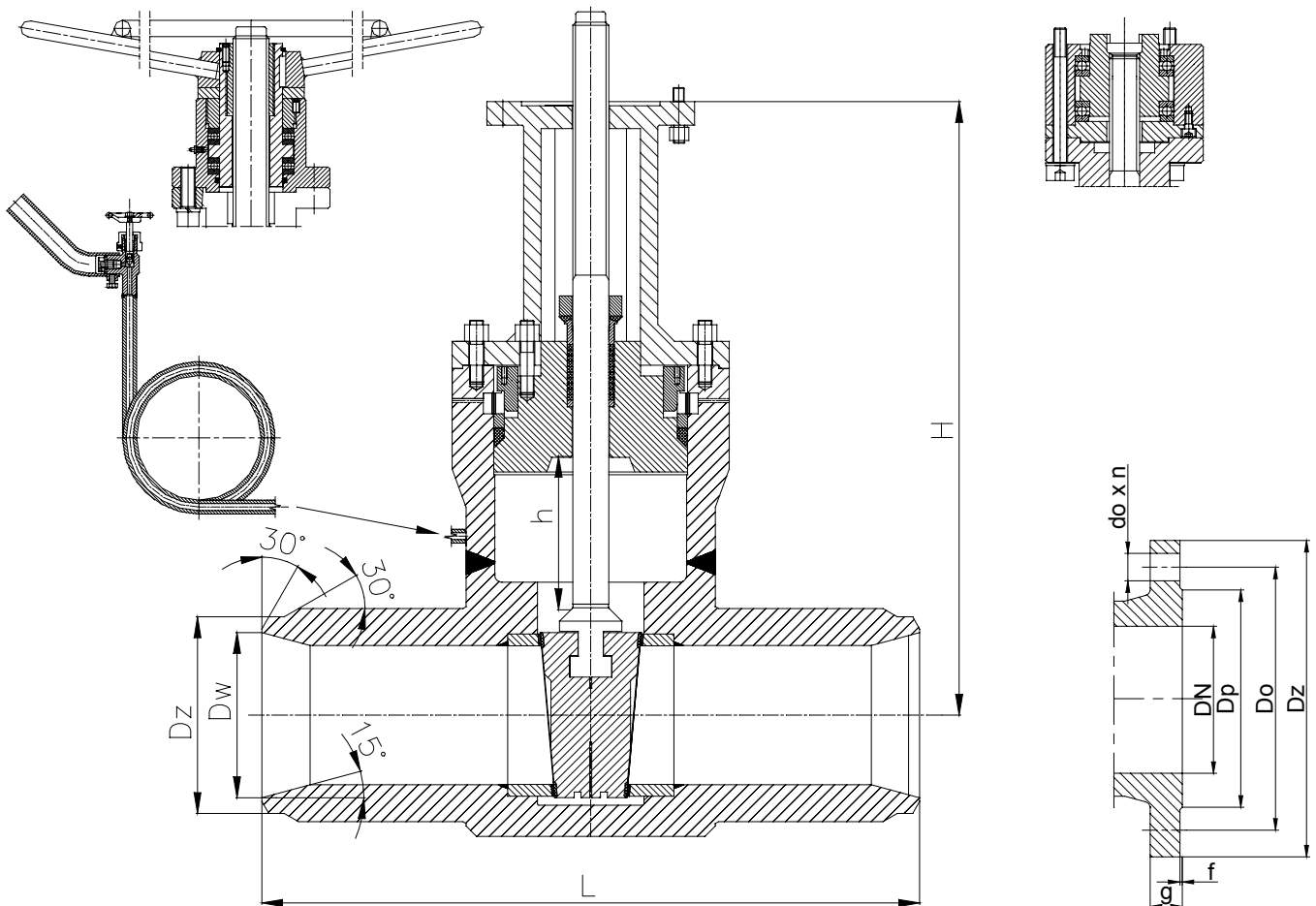
Example: GKA160 / --- / --- / ---

Example: GKB160 / NA / ---

Type	Body material	Sign	Drive type	Sign	Others	Sign
X6CrNiTi18-10	(1.4541)	GKA	Hand wheel	---	-----	---
X5CrNi18-10	(1.4301)	GKA	AUMA drive	NA		
X2CrNiMo17-12-2	(1.4404)	GKB	NWA drive	NW		
			MODACT drive	NM		
X6CrNiMoTi17-12-2	(1.4571)	GKB	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions Parts	GSA/GKA160	GSB/GKB160
Body, bonnet	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Wedge	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Stem	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Packing rings	PTFE , Grafit	
Wheel	Steel	

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	"GK"								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	52,5	300	490	61	400	37,80	195	102	145	30	4	300	30	3	51,80
65	77	65	360	534	77	400	58,50	220	122	170	26	8	360	34	3	78,50
80	91	76,5	390	613	92	500	103,50	230	138	180	26	8	390	36	3	127,50
100	117	98,5	450	690	115	700	144,00	265	162	210	30	8	450	40	3	179,00
125	144	120,5	525	760	140	700	207,00	315	188	250	33	8	525	44	3	261,10
150	172	144,5	600	970	160	850	244,80	355	218	290	33	12	600	50	3	355,80
175	by customers acceptance							by customers acceptance								
200	223	189	750	1240	225	1100	566,10	430	285	360	36	12	750	60	3	703,10
250	278	242,5	900	1450	270	1100	930,60	515	345	430	42	12	900	68	3	1152,6
300	329	285,5	1050	1300*	335	-	1522,80	585	410	500	42	16	1050	78	4	1852,80
350	by customers acceptance							by customers acceptance								
400	by customers acceptance							by customers acceptance								
450	by customers acceptance							by customers acceptance								
500	by customers acceptance							by customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	Medium	PN	Maximal working pressure at working temperature															
			20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	510°C	520°C	530°C	540°C	550°C
			bar															
X6CrNiTi18-10 (1.4541)	aggressive media	160	160,0	158,4	149,3	141,7	134,8	-	-	-	-	-	-	-	-	-	-	
X2CrNiMo17-12-2 (1.4404)		160	160,0	151,6	137,9	127,2	119,6	-	-	-	-	-	-	-	-	-	-	
X6CrNiTi18-10 (1.4541)	non aggressive media	160	160,0	158,4	149,3	141,7	134,8	127,2	122,6	118,8	116,1	114,8	113,5	112,0	111,2	110,0	108,8	108,1
X2CrNiMo17-12-2 (1.4404)		160	160,0	151,6	137,9	127,2	119,6	110,4	105,9	102,8	100,1	99,0	97,5	97,5	97,5	97,1	97,1	97,1
X5CrNi18-10 (1.4301)	non aggressive media	160	160,0	160,0	160,0	149,5	138,1	128,6	122,9	119,1	116,7	113,9	114,3	105,4	96,6	87,7	78,9	70,1
X6CrNiMo17-12-2 (1.4571)		160	160,0	160,0	156,2	148,6	146,6	142,9	142,9	142,9	139,8	138,5	137,1	136,6	136,0	135,4	134,8	134,4

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS160 ; ZK160

CHARACTERISTIC:

- Diameter - 50 -500 mm;
- Pressure - 160 bar;
- Temperature - up to 670°C;
- Medium - water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

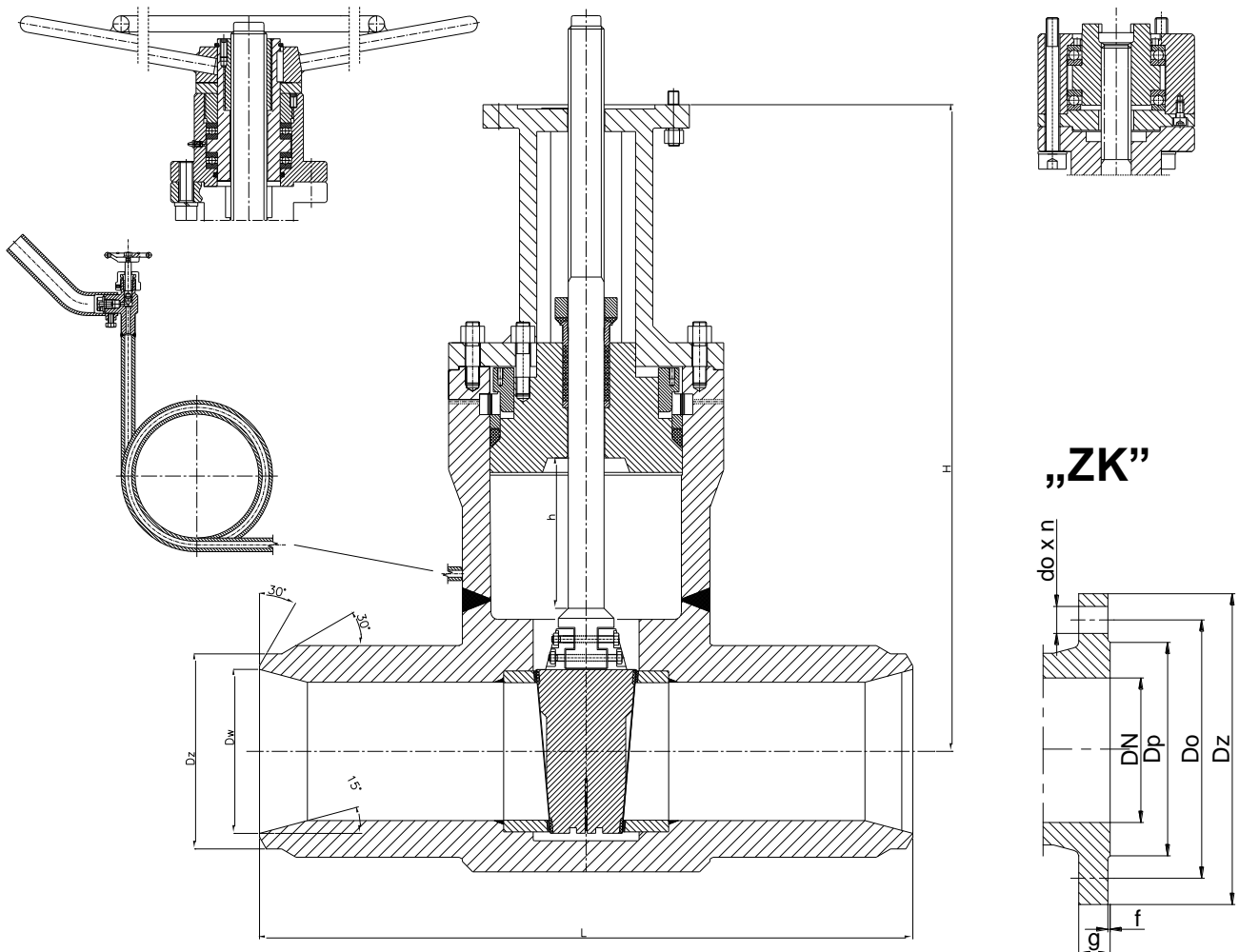
Example: ZS160 / -- / --- / ---

Example: ZS160 / U / NA / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	"ZK"								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	52,5	300	490	61	400	37,80	195	102	145	30	4	300	30	3	51,80
65	77	65	360	534	77	400	58,50	220	122	170	26	8	360	34	3	78,50
80	91	76,5	390	613	92	500	103,50	230	138	180	26	8	390	36	3	127,50
100	117	98,5	450	690	115	700	144,00	265	162	210	30	8	450	40	3	179,00
125	144	120,5	525	760	140	700	207,00	315	188	250	33	8	525	44	3	261,10
150	172	144,5	600	970	160	850	244,80	355	218	290	33	12	600	50	3	355,80
175	by customers acceptance							by customers acceptance								
200	223	189	750	1240	225	1100	566,10	430	285	360	36	12	750	60	3	703,10
250	278	242,5	900	1450	270	1100	930,60	515	345	430	42	12	900	68	3	1152,6
300	329	285,5	1050	1300*	335	-	1522,80	585	410	500	42	16	1050	78	4	1852,80
350	by customers acceptance							by customers acceptance								
400	by customers acceptance							by customers acceptance								
450	by customers acceptance							by customers acceptance								
500	by customers acceptance							by customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	160	160,00	148,50	140,90	133,30	121,90	110,40	102,80	95,20	52,50	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	160	160,00	160,00	160,00	160,00	156,10	137,10	129,50	121,90	118,00	89,70	70,80	44,90	35,80	-	-	-	-
13CrMo4-5 (1.7335)	160	160,00	160,00	160,00	160,00	160,00	159,20	152,30	144,70	137,10	117,40	104,30	71,60	59,40	46,40	30,40	25,10	-
14MoV6-3 (1.7715)	160	160,00	160,00	160,00	160,00	160,00	160,00	160,00	159,20	154,70	153,50	147,00	113,50	99,80	86,10	65,50	55,60	-
11CrMo9-10 (1.7383)	160	160,00	160,00	160,00	160,00	160,00	160,00	156,10	148,50	140,90	118,00	102,80	78,40	68,50	59,40	44,10	38,80	25,9

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST160 ; ZKT160

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	160 bar;
Temperature	-	up to 600°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

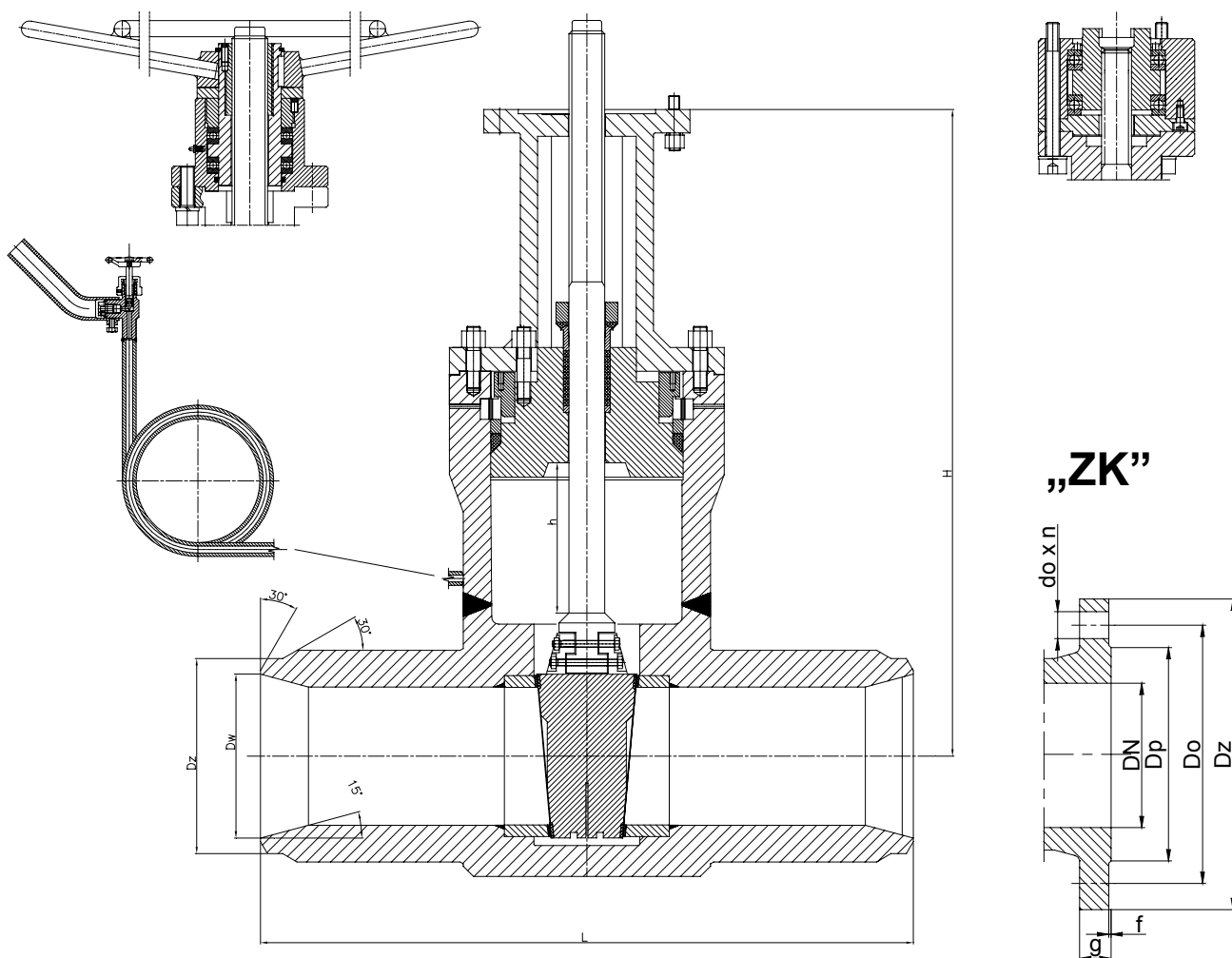
Example: **ZST160 / --- / --- / ---**

Example: **ZST160 / U / NA / ---**

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)
Stem	BT9				
Seat ring	Stellit				
Wedge ring	Stellit				
Packing rings	Grafit				
Wheel	Steel				

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	"ZK"								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	52,5	300	490	61	400	37,80	195	102	145	30	4	300	30	3	51,80
65	77	65	360	534	77	400	58,50	220	122	170	26	8	360	34	3	78,50
80	91	76,5	390	613	92	500	103,50	230	138	180	26	8	390	36	3	127,50
100	117	98,5	450	690	115	700	144,00	265	162	210	30	8	450	40	3	179,00
125	144	120,5	525	760	140	700	207,00	315	188	250	33	8	525	44	3	261,10
150	172	144,5	600	970	160	850	244,80	355	218	290	33	12	600	50	3	355,80
175	by customers acceptance							by customers acceptance								
200	223	189	750	1240	225	1100	566,10	430	285	360	36	12	750	60	3	703,10
250	278	242,5	900	1450	270	1100	930,60	515	345	430	42	12	900	68	3	1152,6
300	329	285,5	1050	1300*	335	-	1522,80	585	410	500	42	16	1050	78	4	1852,80
350	by customers acceptance							by customers acceptance								
400	by customers acceptance							by customers acceptance								
450	by customers acceptance							by customers acceptance								
500	by customers acceptance							by customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	160	160,00	148,50	140,90	133,30	121,90	110,40	102,80	95,20	52,50	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	160	160,00	160,00	160,00	160,00	156,10	137,10	129,50	121,90	118,00	89,70	70,80	44,90	35,80	-	-	-	-
13CrMo4-5 (1.7335)	160	160,00	160,00	160,00	160,00	160,00	159,20	152,30	144,70	137,10	117,40	104,30	71,60	59,40	46,40	30,40	25,10	-
14MoV6-3 (1.7715)	160	160,00	160,00	160,00	160,00	160,00	160,00	160,00	159,20	154,70	153,50	147,00	113,50	99,80	86,10	65,50	55,60	-
11CrMo9-10 (1.7383)	160	160,00	160,00	160,00	160,00	160,00	160,00	156,10	148,50	140,90	118,00	102,80	78,40	68,50	59,40	44,10	38,80	25,9

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE GS250

CHARACTERISTIC:

- Diameter - 50 -350 mm;
- Pressure - 250 bar;
- Temperature - up to 600°C;
- Medium - water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

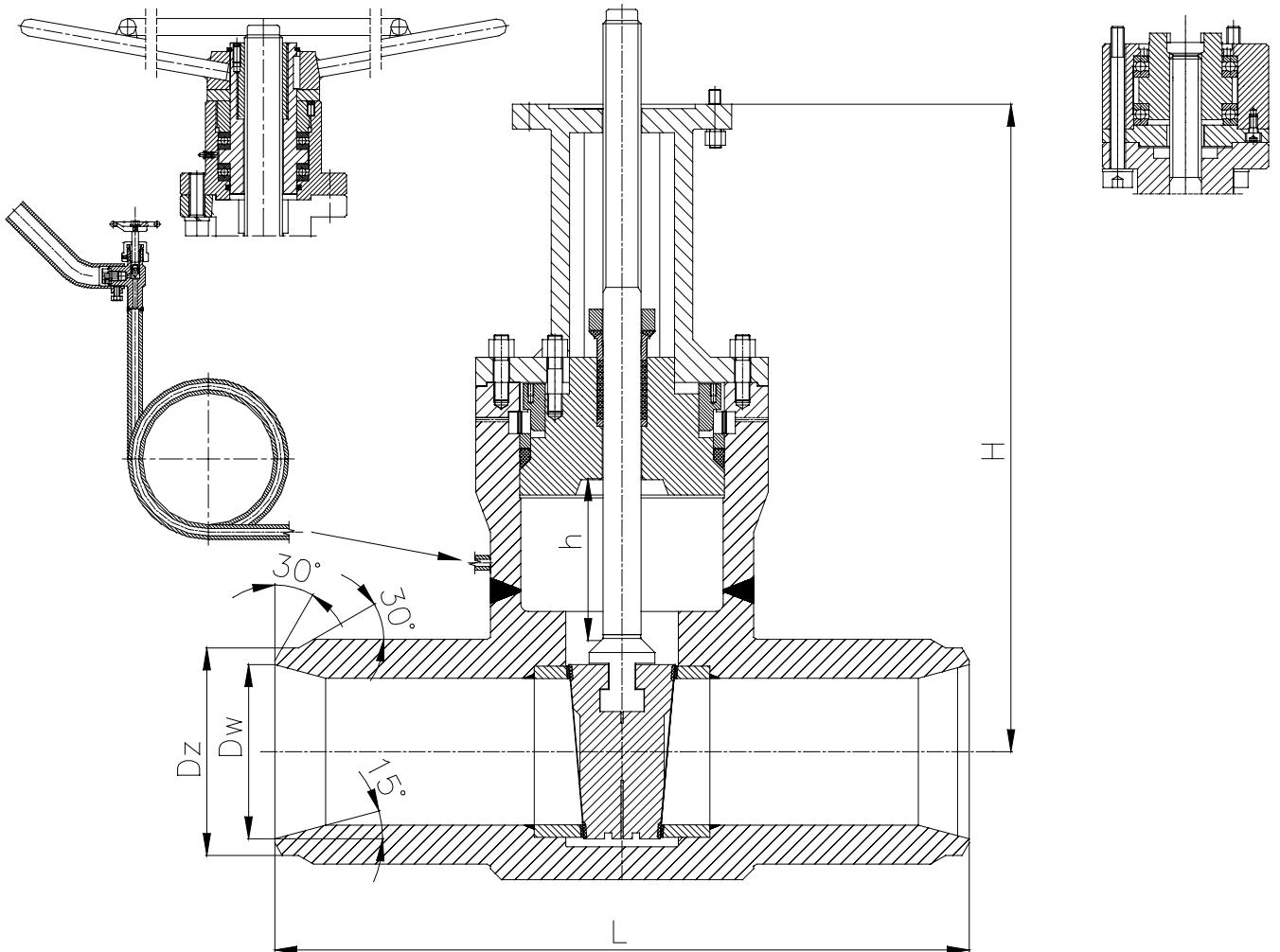
Example: **GS250 / --- / --- / ---**

Example: **GS250 / U / NA / ---**

Type Body material	Sign	Drive type	Sign	Others	Sign
X6CrNiTi18-10 (1.4541)	GKA	Hand wheel	---	-----	---
X5CrNi18-10 (1.4301)	GKA	AUMA drive	NA		
X2CrNiMo17-12-2 (1.4404)	GKB	NWA drive	NW		
		MODACT drive	NM		
		Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions Parts	GSA160	GSB160
Body, bonnet	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Wedge	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Stem	X6CrNiTi18-10 (1.4541)	X2CrNiMo17-12-2 (1.4404)
Packing rings	PTFE , Grafit	
Wheel	Steel	

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight
50	602	45	350	400	65	350	42,00
65	77	57,5	425	400	78	350	65,00
80	91	65,5	470	435	93	350	115,00
100	117	87,5	550	435	112	400	160,00
125	144	106,5	650	535	146	500	230,00
150	172	130,5	750	708	174	800	272,00
175	193,7	149,3	850	910	185	900	451,00
200	223	172	950	1107	233	1000	629,00
250	278	212,5	1150	1245	260	1000	1034,00
300	355,6	287	1350	1512	310	1000	1692,00
350	406,4	339	1500	1780	355	1000	1792,00

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	Medium	PN	Maximal working pressure at working temperature															
			20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	510°C	520°C	530°C	540°C	550°C
X6CrNiTi18-10 (1.4541)	aggressive media	250	250	248	233	221	211	-	-	-	-	-	-	-	-	-	-	
		250	250	250	244	232	229	-	-	-	-	-	-	-	-	-	-	
X2CrNiMo17-12-2 (1.4404)	non aggressive media	250	250	248	233	221	211	199	192	186	182	180	177	177	176	176	175	169
		250	250	250	244	232	229	216	207	201	196	193	191	190	190	189	189	188
X5CrNi18-10 (1.4301)		250	250	250	250	234	216	201	192	186	182	180	179	165	151	137	123	109

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS250 ; ZK250

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	250 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

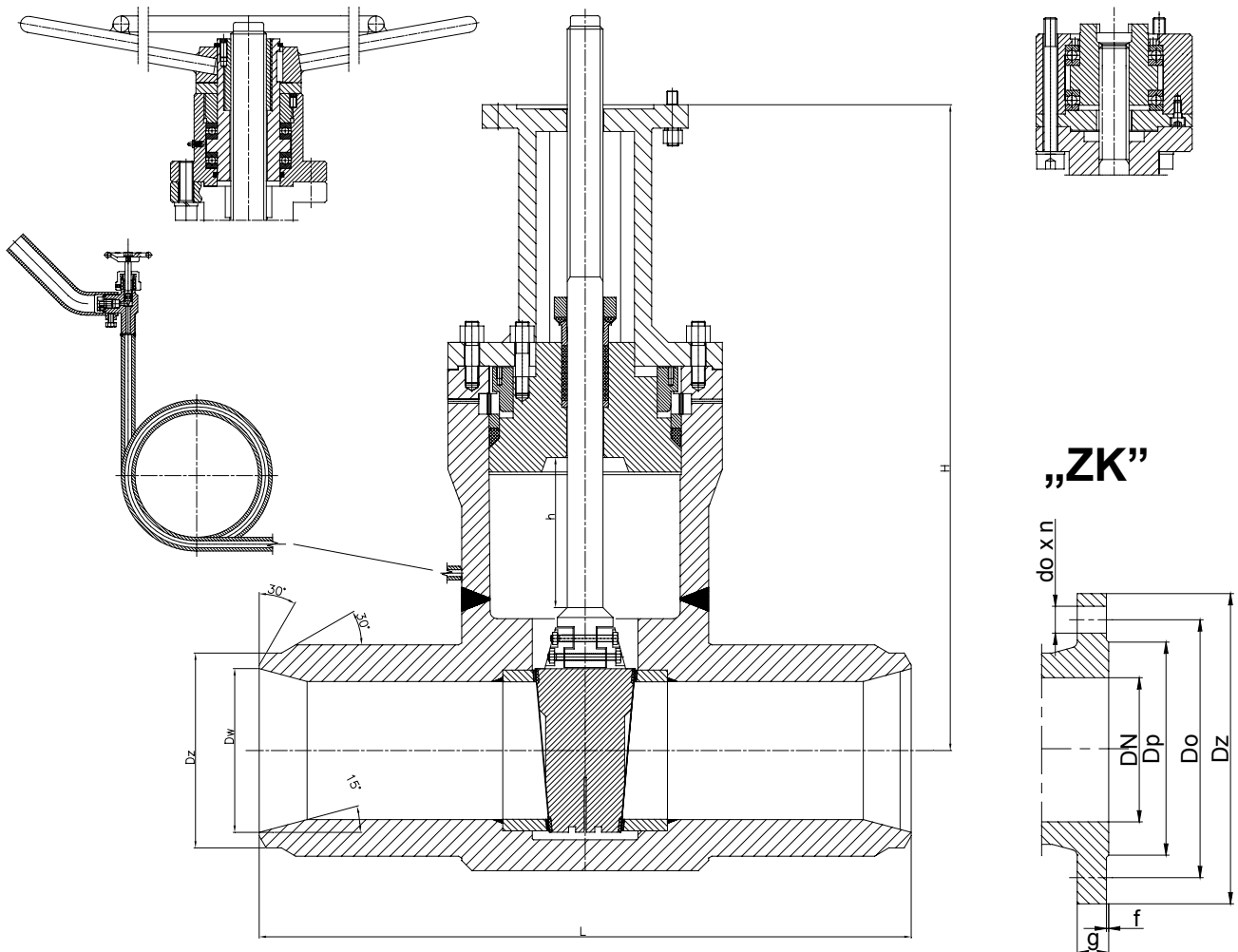
Example: ZS250 / --- / --- / ---

Example: ZS250 / U / NA / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

Butt weld ends								Flanged								
DN	Dz	Dw	L	H	h	Dk	Weight	Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	45	350	490	61	400	42,00	200	102	150	26	8	350	42	3	33,9
65	77	59,5	425	534	77	500	65,00	230	122	180	26	8	400	51	3	45,2
80	117	93	470	615	92	500	115,00	255	138	200	30	8	450	55	3	97,1
100	144	116,5	550	690	115	700	160,00	300	162	235	33	8	520	65	3	150,0
125	172	138,5	650	760	140	700	230,00	340	188	275	33	12	600	75	3	220,1
150	182	144,5	750	1040	160	1100	272,00	390	218	320	36	12	700	84	3	274,9
175	-	-	-	-	-	-	-	By customers acceptance								
200	223	182	950	1280	225	1100	629,00	485	285	400	42	12	800	103	3	640,2
250	278	226,5	1150	1450	270	1100	1034,0	585	345	490	48	16	900	125	3	1067,7
300	329	271,5	1350	1300	335	-	1692,0	690	410	590	52	16	1050	150	4	1612,6
350	356	321	1257	1480	355	-	1956,0	By customers acceptance								
400	By customers acceptance							By customers acceptance								
450	By customers acceptance							By customers acceptance								
500	By customers acceptance							By customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	250	250,0	232,1	220,2	208,3	190,4	172,6	160,7	148,8	82,1	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	250	250,0	250,0	250,0	250,0	244,0	214,2	202,3	190,4	184,5	140,2	110,7	70,2	55,9	-	-	-	-
13CrMo4-5 (1.7335)	250	250,0	250,0	250,0	250,0	250,0	248,8	238,0	226,1	214,2	183,5	163,0	111,9	92,8	72,6	47,6	39,2	-
14MoV6-3 (1.7715)	250	250,0	250,0	250,0	250,0	250,0	250,0	250,0	248,8	241,7	239,9	229,8	177,4	156,0	134,5	102,4	86,9	-
10CrMo9-10 (1.7380)	250	250,0	250,0	250,0	250,0	250,0	250,0	244,0	232,1	220,2	184,5	160,7	122,6	107,1	92,8	69,0	60,7	40,4

Body material	PN	Maximal working pressure at working temperature															
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C
X10CrMoVNb9-1 (1.4903)	250	250,0	239,0	218,0	198,0	179,0	160,0	143,0	126,0	112,0	99,0	87,0	77,0	67,0	58,0	50,0	43,0

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST250 ; ZKT250

CHARACTERISTIC:

- Diameter - 50 -350 mm;
- Pressure - 250 bar;
- Temperature - up to 600°C;
- Medium - water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

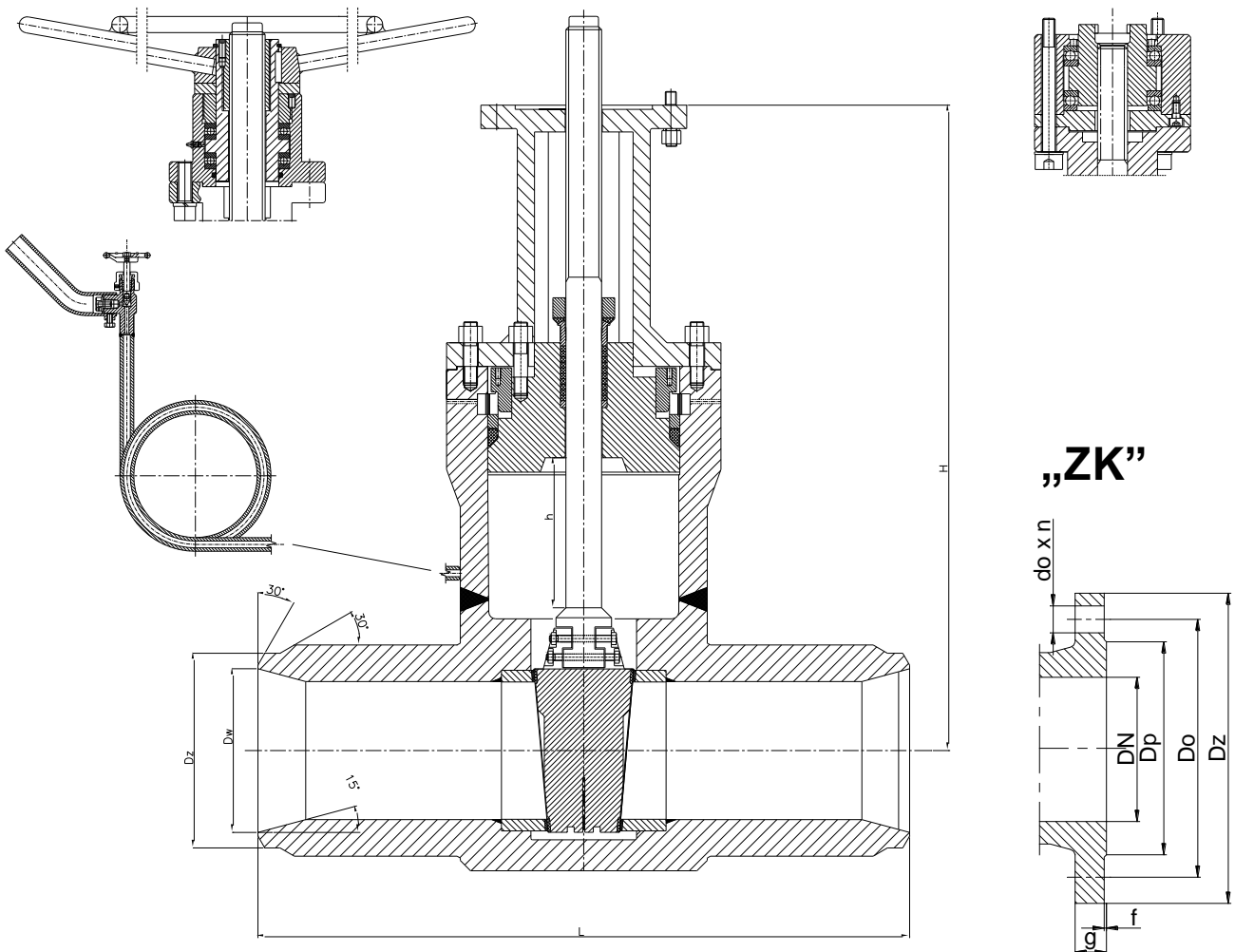
Example: ZST250 / --- / --- / ---

Example: ZST250 / A / NA / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)
Stem	BT9				
Seat ring	Stellit				
Wedge ring	Stellit				
Packing rings	Grafit				
Wheel	Steel				

Special materials on request; modifications reserved.

DIMENSIONS:

Butt weld ends								Flanged								
DN	Dz	Dw	L	H	h	Dk	Weight	Dz	Dp	Do	do	n	L	g.	f	Weight
50	62	47	350	490	61	400	42,00	200	102	150	26	8	350	42	3	33,9
		45														
65	77	59,5	425	534	77	500	65,00	230	122	180	26	8	400	51	3	45,2
80	115	93	470	615	92	500	115,00	255	138	200	30	8	450	55	3	97,1
100	-	-	550	690	115	700	160,00	300	162	235	33	8	520	65	3	150,0
125	-	-	650	760	140	700	230,00	340	188	275	33	12	600	75	3	220,1
150	-	-	750	1040	160	1100	272,00	390	218	320	36	12	700	84	3	274,9
175	-	-	-	-	-	-	-	By customers acceptance								
200	-	-	950	1280	225	1100	629,00	485	285	400	42	12	800	103	3	640,2
250	-	-	1150	1450	270	1100	1034,0	585	345	490	48	16	900	125	3	1067,7
300	-	-	1350	1300	335	-	1692,0	690	410	590	52	16	1050	150	4	1612,6
350	By customers acceptance							By customers acceptance								
400	By customers acceptance							By customers acceptance								
450	By customers acceptance							By customers acceptance								
500	By customers acceptance							By customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	250	250,0	232,1	220,2	208,3	190,4	172,6	160,7	148,8	82,1	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	250	250,0	250,0	250,0	250,0	244,0	214,2	202,3	190,4	184,5	140,2	110,7	70,2	55,9	-	-	-	-
13CrMo4-5 (1.7335)	250	250,0	250,0	250,0	250,0	250,0	248,8	238,0	226,1	214,2	183,5	163,0	111,9	92,8	72,6	47,6	39,2	-
14MoV6-3 (1.7715)	250	250,0	250,0	250,0	250,0	250,0	250,0	250,0	248,8	241,7	239,9	229,8	177,4	156,0	134,5	102,4	86,9	-
11CrMo9-10 (1.7383)	250	250,0	250,0	250,0	250,0	250,0	250,0	244,0	232,1	220,2	184,5	160,7	122,6	107,1	92,8	69,0	60,7	40,4

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS320 ZK320

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	320 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

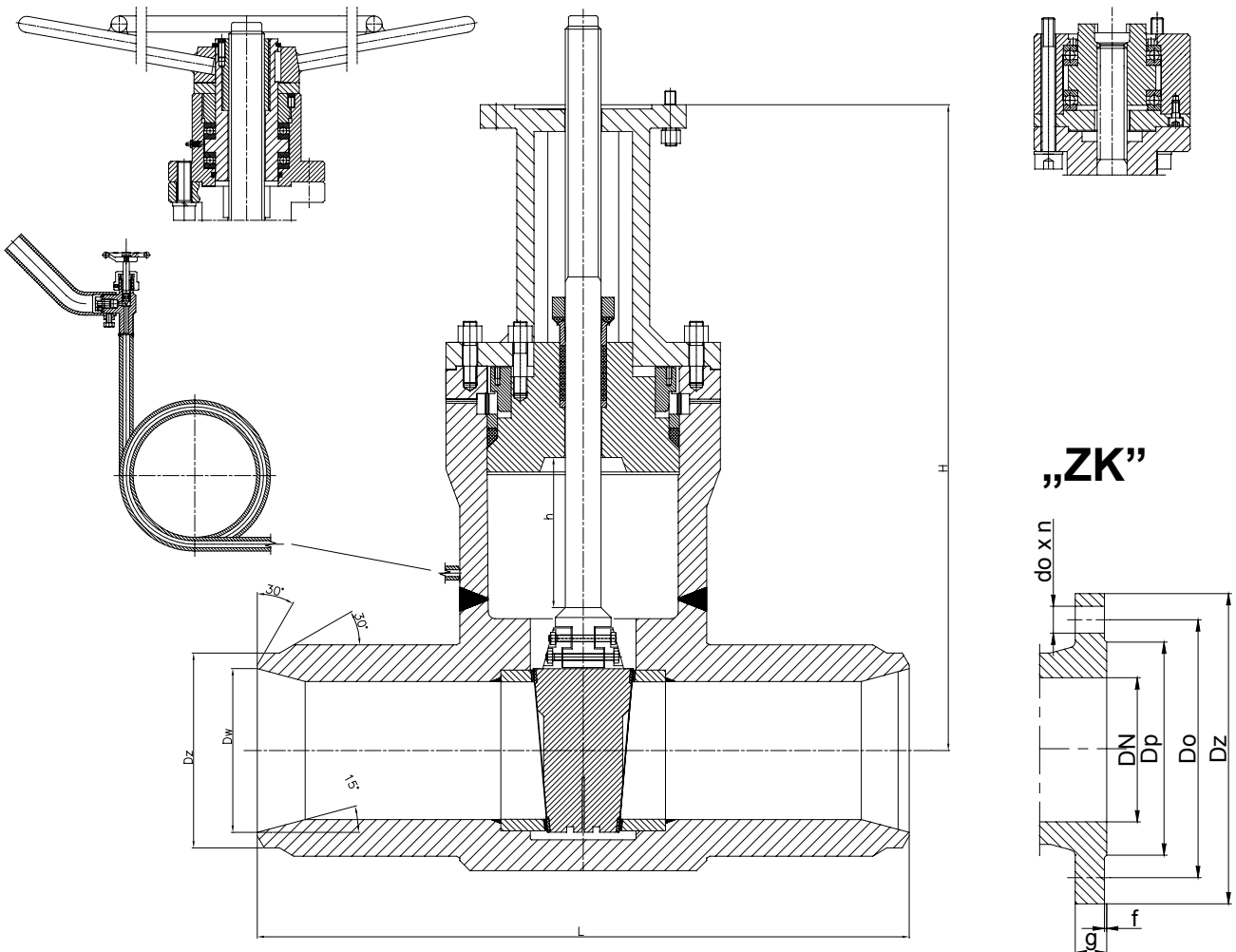
Example: ZS320 / --- / --- / ---

Example: ZS320 / U / NW / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafit					
Wheel	Steel					

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	Flanged								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	65	47	350	490	61	400	45,00	210	102	160	26	8	350	42	3	65,00
	77	59,5														
65	91	68	425	545	77	700	70,00	255	122	200	30	8	425	51	3	77,00
80	117	87,5	470	624	92	700	122,00	275	138	220	30	8	470	55	3	134,00
100	144	109,5	550	690	115	700	170,00	335	162	265	36	8	550	65	3	187,00
125	172	130,5	650	760	140	700	245,00	380	188	310	36	12	650	75	3	270,00
150	201	151,5	750	1040	160	1100	290,00	425	218	350	39	12	750	84	3	319,00
175	-	-	-	-	-	-	-	By customers acceptance								
200	252	191,5	950	1280	225	1100	670,00	525	285	440	42	16	950	103	3	737,00
250	329	255,5	1150	1150	270	-	1100,0	640	345	540	52	16	1150	125	3	1210,00
300	362	287	1350	1380	335	-	1800,0	By customers acceptance								
350	413	321	1500	1780	355	-	1920,0	By customers acceptance								
400	By customers acceptance							By customers acceptance								
450	By customers acceptance							By customers acceptance								
500	By customers acceptance							By customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	320	320,00	297,10	281,90	266,60	243,80	220,90	205,70	190,40	105,10								-
16Mo3 (1.5415)	320	320,00	320,00	320,00	320,00	312,30	274,20	259,00	243,80	236,10	179,50	141,70	89,90	71,60				-
13CrMo4-5 (1.7335)	320	320,00	320,00	320,00	320,00	320,00	318,40	304,70	289,50	274,20	234,90	208,70	143,20	118,80	92,90	60,90	50,20	-
14MoV6-3 (1.7715)	320	320,00	320,00	320,00	320,00	320,00	320,00	320,00	318,50	309,30	307,00	294,10	227,00	199,60	172,20	131,00	111,20	-
11CrMo9-10 (1.7383)	320	320,00	320,00	320,00	320,00	320,00	320,00	312,30	297,10	281,90	236,10	205,70	156,90	137,10	118,80	88,30	77,70	51,8
Body material	PN	Maximal working pressure at working temperature																
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C	
X10CrMoVNb9-1 (1.4903)	320	320,0	320,0	293,7	252,9	228,5	204,1	182,8	161,5	143,2	126,5	111,2	99,0	85,3	74,7	64,0	54,9	

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST320

CHARACTERISTIC:

Diameter	-	50 -350 mm;
Pressure	-	320 bar;
Temperature	-	up to 600°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

Example: ZST320 / --- / --- / ---

Example: ZST320 / A / NA / ---

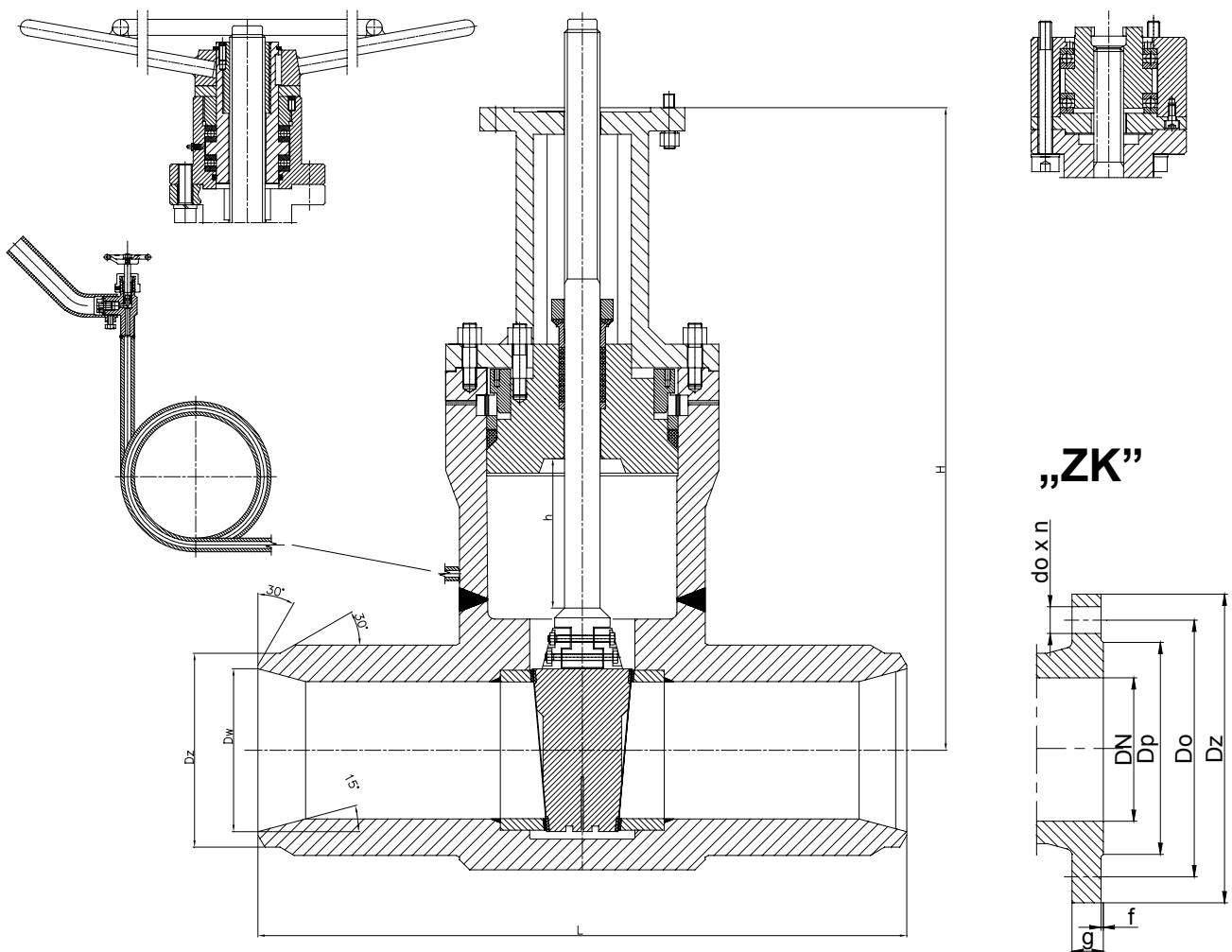
Body material	Sign
(P250GH) C 22.8	---
16Mo3	U
13CrMo4-5	A
11CrMo9-10	B
14MoV6-3	C

Drive type	Sign
Hand wheel	---
AUMA drive	NA
NWA drive	NW
MODACT drive	NM
Pneumatic drive	NP

Others	Sign
-----	---

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)
Stem	BT9				
Seat ring	Stellit				
Wedge ring	Stellit				
Packing rings	Grafit				
Wheel	Steel				

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	Flanged								
								Dz	Dp	Do	do	n	L	g.	f	Weight
50	65	47	350	490	61	400	45,00	210	102	160	26	8	350	42	3	65,00
	77	59,5														
65	90	68	425	545	77	700	70,00	255	122	200	30	8	425	51	3	77,00
80	115	87,5	470	624	92	700	122,00	275	138	220	30	8	470	55	3	134,00
100	-	-	550	690	115	700	170,00	335	162	265	36	8	550	65	3	187,00
125	-	-	650	760	140	700	245,00	380	188	310	36	12	650	75	3	270,00
150	-	-	750	1040	160	1100	290,00	425	218	350	39	12	750	84	3	319,00
175	-	-	-	-	-	-	-	By customers acceptance								
200	-	-	950	1280	225	1100	670,00	525	285	440	42	16	950	103	3	737,00
250	-	-	1150	1150	270	-	1100,0	640	345	540	52	16	1150	125	3	1210,00
300	-	-	1350	1380	335	-	1800,0	By customers acceptance								
350	By customers acceptance							By customers acceptance								
400	By customers acceptance							By customers acceptance								
450	By customers acceptance							By customers acceptance								
500	By customers acceptance							By customers acceptance								

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
(P250GH)C 22.8 (1.0460)	320	320,00	297,10	281,90	266,60	243,80	220,90	205,70	190,40	105,10								-
16Mo3 (1.5415)	320	320,00	320,00	320,00	320,00	312,30	274,20	259,00	243,80	236,10	179,50	141,70	89,90	71,60				-
13CrMo4-5 (1.7335)	320	320,00	320,00	320,00	320,00	320,00	318,40	304,70	289,50	274,20	234,90	208,70	143,20	118,80	92,90	60,90	50,20	-
14MoV6-3 (1.7715)	320	320,00	320,00	320,00	320,00	320,00	320,00	320,00	318,50	309,30	307,00	294,10	227,00	199,60	172,20	131,00	111,20	-
11CrMo9-10 (1.7383)	320	320,00	320,00	320,00	320,00	320,00	320,00	312,30	297,10	281,90	236,10	205,70	156,90	137,10	118,80	88,30	77,70	51,8

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZST400

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	400 bar;
Temperature	-	up to 600°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

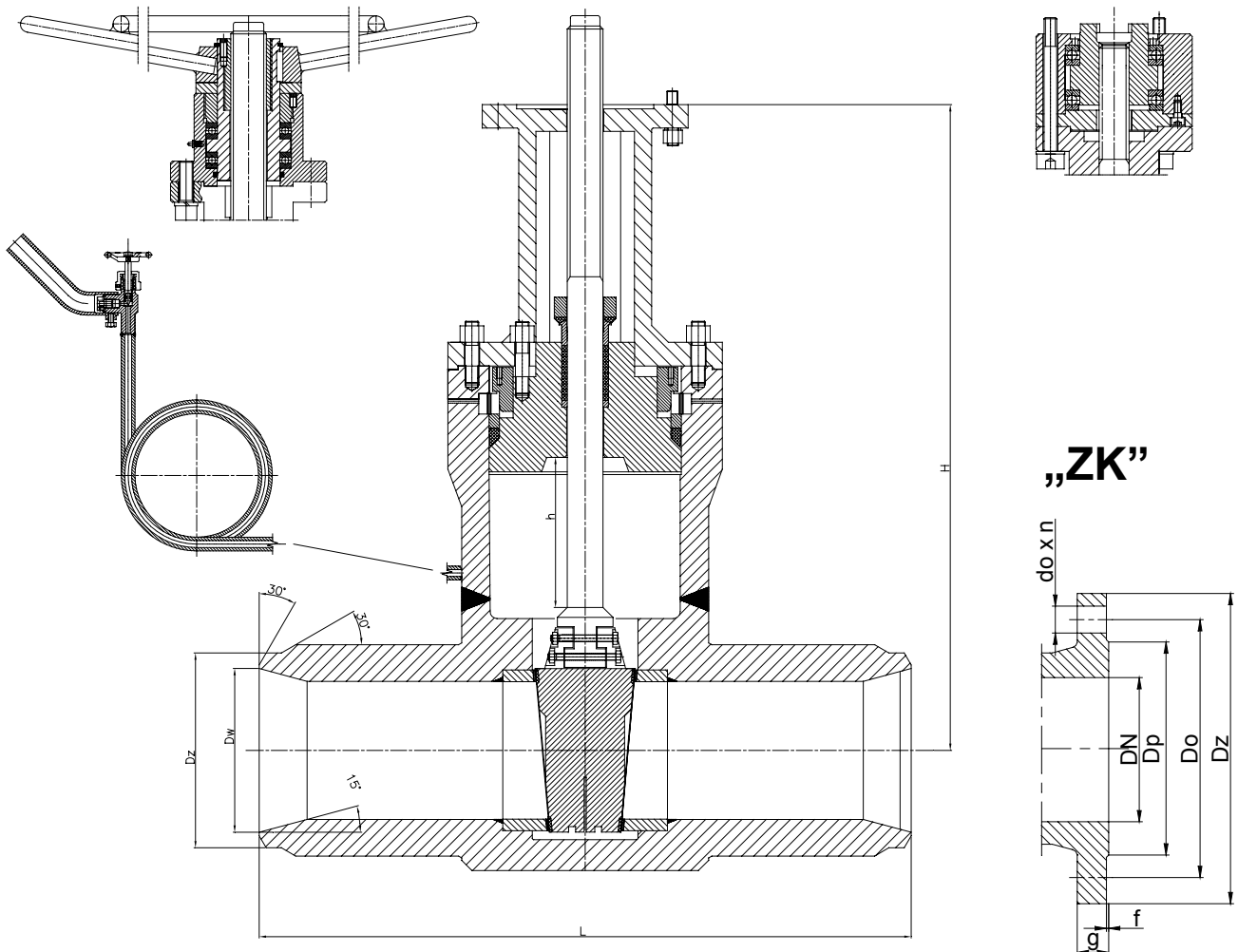
Example: ZST400 / --- / --- / ---

Example: ZST400 / A / NA / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C	Pneumatic drive	NP		

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)
Stem	BT9				
Seat ring	Stellit				
Wedge ring	Stellit				
Packing rings	Grafit				
Wheel	Steel				

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight
50	77	49,5	350	400	65	350	49,50
65	91	62	425	400	78	350	77,00
80	117	81	470	435	93	350	134,20
100	144	102	550	435	112	400	187,00
125	172	126,5	650	535	146	500	269,50
150	201	146,5	750	708	174	800	319,00
175	-	-	850	910	185	900	528,00
200	278	205,5	950	1107	233	1000	737,00
250	329	248,5	1150	1245	260	1000	1210,00
300	413	312	1350	1512	310	1000	1980,00
350	464	344	1500	1780	355	1000	2090,00

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
		bar																
(P250GH)C 22.8 (1.0460)	400	400,00	371,38	352,38	333,25	304,75	276,13	257,13	238,00	131,38	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	400	400,00	400,00	400,00	400,00	390,38	342,75	323,75	304,75	295,13	224,38	177,13	112,38	89,50	-	-	-	-
13CrMo4-5 (1.7335)	400	400,00	400,00	400,00	400,00	400,00	398,00	380,88	361,88	342,75	293,63	260,88	179,00	148,50	116,13	76,13	62,70	-
14MoV6-3 (1.7715)	400	400,00	400,00	400,00	400,00	400,00	400,00	400,00	398,10	386,70	383,80	367,60	283,80	249,50	215,20	163,80	139,00	-
11CrMo9-10 (1.7383)	400	400,00	400,00	400,00	400,00	400,00	400,00	390,38	371,38	352,38	295,13	257,13	196,13	171,38	148,50	110,38	97,13	64,8

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.

GATE VALVE TYPE ZS400

CHARACTERISTIC:

Diameter	-	50 -500 mm;
Pressure	-	400 bar;
Temperature	-	up to 670°C;
Medium	-	water, steam and other non-toxic, non-aggressive media

VERSIONS:

type / body material / drive type / others

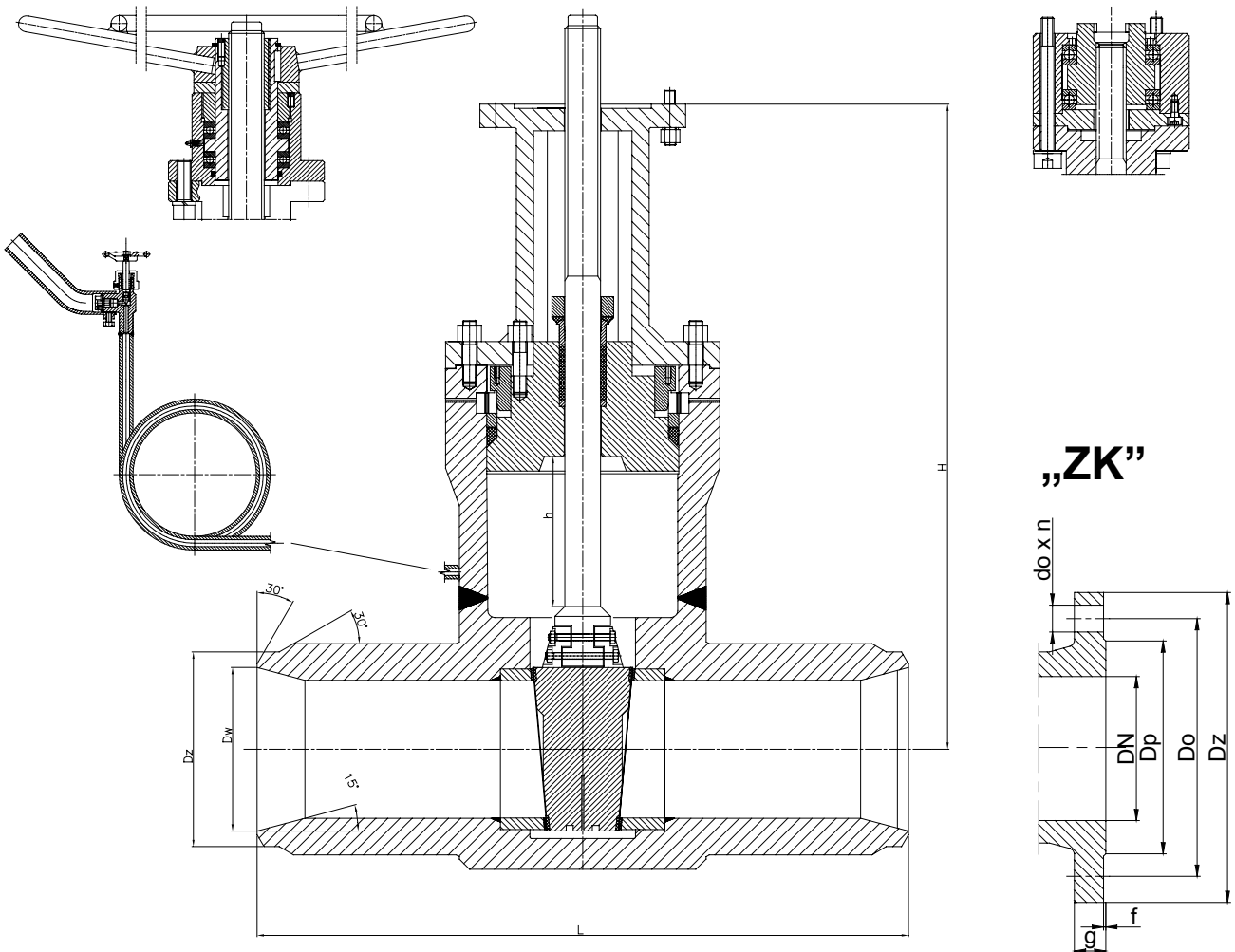
Example: ZS400 / --- / --- / ---

Example: ZS400 / U / NA / ---

Body material	Sign	Drive type	Sign	Others	Sign
(P250GH) C 22.8	---	Hand wheel	---	-----	---
16Mo3	U	AUMA drive	NA		
13CrMo4-5	A	NWA drive	NW		
11CrMo9-10	B	MODACT drive	NM		
14MoV6-3	C				
X10CrMoVNb9-1	E	Pneumatic drive	NP		
15NiCuMoNb5-6-4	F				

APPLICATION:

Gate valve is designed to open and stop the flow. The gate valve can be mounted to a pipeline in any position. It should operate in a close or open position.



MATERIALS:

Versions	Standard	U	A	B	C	E	F
Parts	T _{MAX} 450°C	T _{MAX} 530°C	T _{MAX} 560°C	T _{MAX} 600°C	T _{MAX} 570°C	T _{MAX} 670°C	T _{MAX} 500°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)	15NiCuMoNb5-6-4 (1.6368)
Stem	X39CrMo17-1 (1.4122)						
Seat ring	Stellit						
Wedge ring	Stellit						
Packing rings	Grafit						
Wheel	Steel						

Special materials on request; modifications reserved.

DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight
50	77	49,5	350	400	65	350	49,50
65	91	62	425	400	78	350	77,00
80	117	81	470	435	93	350	134,20
100	144	102	550	435	112	400	187,00
125	172	126,5	650	535	146	500	269,50
150	201	146,5	750	708	174	800	319,00
175	-	-	850	910	185	900	528,00
200	278	205,5	950	1107	233	1000	737,00
250	329	248,5	1150	1245	260	1000	1210,00
300	413	312	1350	1512	310	1000	1980,00
350	464	344	1500	1780	355	1000	2090,00

Dimensions in mm; modifications reserved.

TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
bar																		
(P250GH)C 22.8 (1.0460)	400	400,00	371,38	352,38	333,25	304,75	276,13	257,13	238,00	131,38	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	400	400,00	400,00	400,00	400,00	390,38	342,75	323,75	304,75	295,13	224,38	177,13	112,38	89,50	-	-	-	-
13CrMo4-5 (1.7335)	400	400,00	400,00	400,00	400,00	400,00	398,00	380,88	361,88	342,75	293,63	260,88	179,00	148,50	116,13	76,13	62,70	-
14MoV6-3 (1.7715)	400	400,00	400,00	400,00	400,00	400,00	400,00	400,00	398,10	386,70	383,80	367,60	283,80	249,50	215,20	163,80	139,00	-
11CrMo9-10 (1.7383)	400	400,00	400,00	400,00	400,00	400,00	400,00	390,38	371,38	352,38	295,13	257,13	196,13	171,38	148,50	110,38	97,13	64,8
15NiCuMoNb5-6-4 (1.6368)	400	400,0	400,0	400,0	400,0	400,0	400,0	400,0	400,0	400,0	264,7	131,4	-	-	-	-	-	-
Body material	PN	Maximal working pressure at working temperature																
		20°C	530°C	540°C	550°C	560°C	570°C	580°C	590°C	600°C	610°C	620°C	630°C	640°C	650°C	660°C	670°C	
bar																		
X10CrMoVNb9-1 (1.4903)	400	400,0	400,0	367,1	316,1	285,6	255,1	228,5	201,9	179,0	158,1	139,0	123,8	106,7	93,3	80,0	68,6	

MOUNTING AND OPERATING:

The gate can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the gate may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.

Before a gate is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the gate. Gate can be mounted to a pipe-line in any position. The direction of the flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide gate's reliability the following suggestions must be observed:

- medium flowing through the gate is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.



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