

# 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

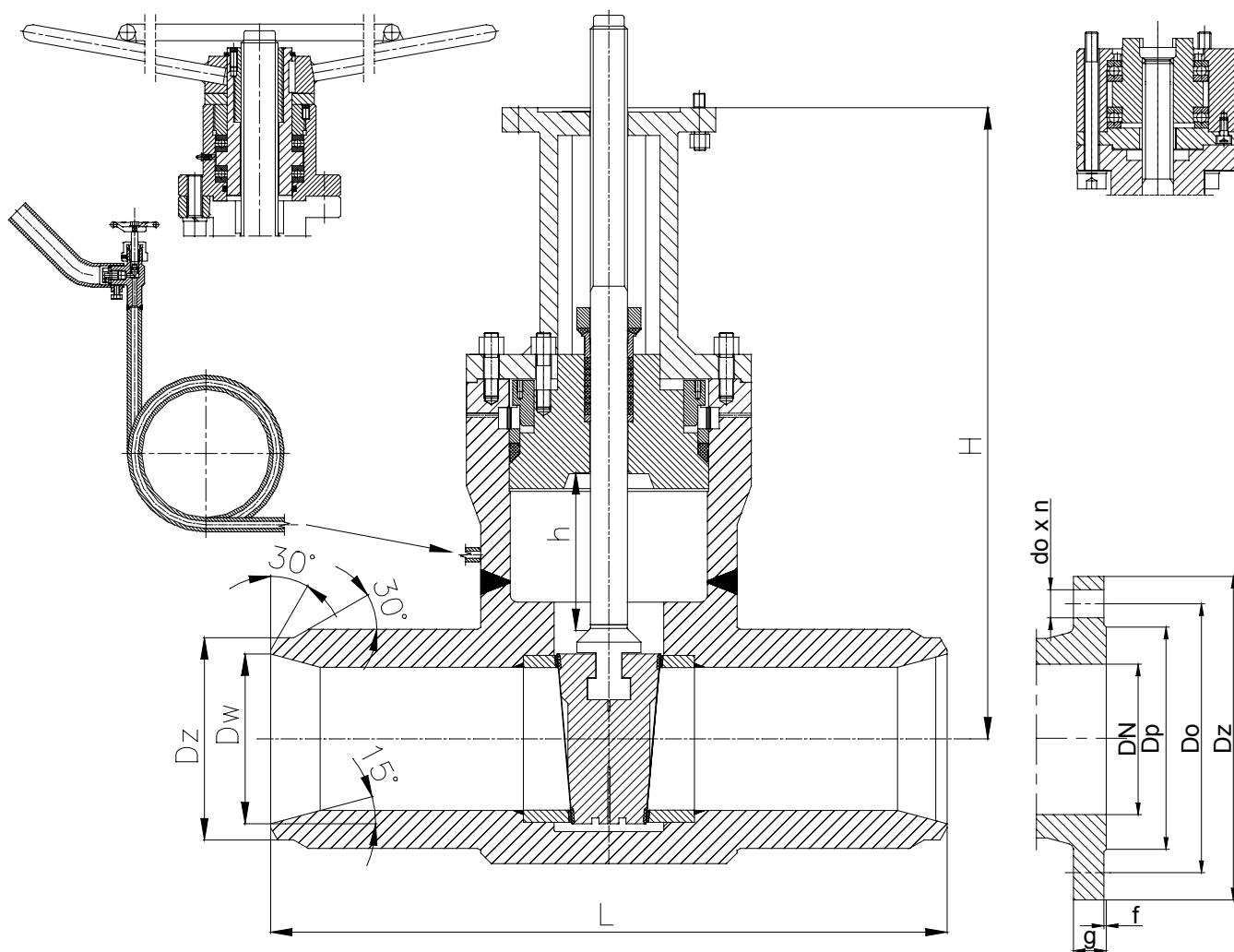
Example: ZS320 / --- / --- / ---

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		
10CrMo9-10	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.



# WK



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## MATERIALS:

Versions	Standard	U	A	B	C	E
Parts	T <sub>MAX</sub> 450°C	T <sub>MAX</sub> 530°C	T <sub>MAX</sub> 560°C	T <sub>MAX</sub> 600°C	T <sub>MAX</sub> 570°C	T <sub>MAX</sub> 570°C
Body, bonnet, wedge	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	10CrMo9-10 (1.7380)	14MoV6-3 (1.7715)	X10CrMoVNb9-1 (1.4903)
Stem	X39CrMo17-1 (1.4122)					
Seat ring	Stellit					
Wedge ring	Stellit					
Packing rings	Grafite					
Wheel	Steel					

Special materials on request; modifications reserved.

## DIMENSIONS:

DN	Dz	Dw	L	H	h	Dk	Weight	Flanged								Weight
								Dz	Dp	Do	do	n	L	g.	f	
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
	bar																	
(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	-
10CrMo9-10 (1.7380)	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	
	bar																	
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.