

# STOP VALVE WITH BELLOWS TYPE 412M

## CHARACTERISTIC:

Diameter	- 15 -200 mm;
Pressure	- 63 bar
Temperature	- up to 560°C (with rubber sealing up to $\leq 120^{\circ}\text{C}$ , with PTFE sealing up to $\leq 200^{\circ}\text{C}$ );
Medium	- water, steam and especially to toxic or poisonous media which may be harmful for human beings or environment and other non-toxic, non aggressive liquid and gas media and engine fuel.

## VERSIONS: type / ends / body material / disc and disc ring / others

Example: 412M / --- / --- / --- / ---

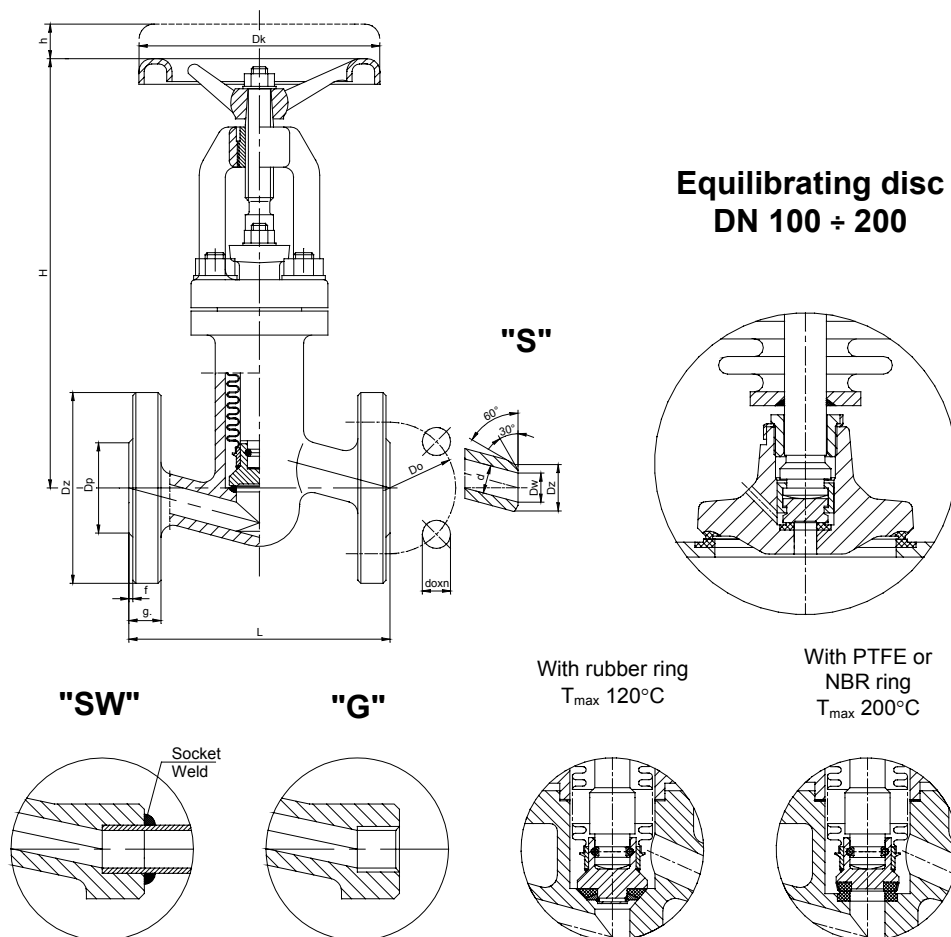
Example: 412M / S / U / P / ---

Ends	Sign	Body material	Sign	Disc and disc ring	Sign	Others	Sign
Standard - flanged	---	(P250GH) C 22.8 or GP240GH	---	Standard	---	-----	---
Butt weld ends	S	16Mo3 or G20Mo5	U	PTFE ring	P	Stem BT9	T
Socket weld	SW	13CrMo4-5 or G17CrMo5-5	A	NBR ring	N		
Threaded	G			Rubber ring	G		
				STELLIT ring	L		

## APPLICATION:

Stop globe valve is designed to open and stop the flow where the fully tightness is required. The valve is not supposed to be used as a regulating device. For regulation the version „R” with throttling plug should be applied.

DN 15 ÷ 80



# WK®

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## MATERIALS:

Versions	Standard	U	A	Standard	U	A
Parts	T <sub>MAX</sub> 450°C	T <sub>MAX</sub> 530°C	T <sub>MAX</sub> 560°C	T <sub>MAX</sub> 450°C	T <sub>MAX</sub> 530°C	T <sub>MAX</sub> 550°C
	DN 15 - 40			DN 50 - 200		
Body, bonnet	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	GP240GH (1.0619)	G20Mo5 (1.5419)	G17CrMo5-5 (1.7357)
Seat ring	G 18 8 Mn (1.4370) or Stellite					
Disc	X20Cr13 (1.4021) , X17CrNi16-2 (1.4057) , P245GH (1.0352) , 13CrMo4-5 (1.7335)					
Disc ring	G 18 8 Mn (1.4370) or Stellite , or PTFE , NBR , rubber					
Stem	X20Cr13 (1.4021) , X17CrNi16-2 (1.4057) , BT9 ,					
Bellows	X6CrNiTi18-10 (1.4541)					
Gasket	Grafite + austenite					
Wheel	Cast iron					

Special materials on request; modifications reserved.

## DIMENSIONS:

DN	d	Dz	Dp	Do	do	n	L	g.	f	H	h	Dk	Weight	“S”			
														Dz	Dw	L	Weight
15	14	105	45	75	14	4	210	20	2	235	13	120	5,70	22	17	160	3,30
20	19	130	58	90	18	4	230	22	2	285	13	120	10,10	28	22	160	3,30
25	23	140	68	100	18	4	230	24	2	285	13	120	11,10	35	28,5	160	3,30
32	30	155	78	110	22	4	260	24	2	315	16	160	15,40	44	36,5	230	9,70
40	38	170	88	125	22	4	260	28	3	315	18	160	16,10	50	43	230	9,90
50	45	180	102	135	22	4	300	26	3	340	22	200	31,30	62	54	300	20,50
65	62	205	122	160	22	8	340	26	3	415	30	250	46,60	77	69	340	31,50
80	73	215	138	170	22	8	380	28	3	505	40	320	62,90	91	81	380	49,60
100	94	250	162	200	22	8	430	30	3	645	55	360	122,50	117	104	430	96,10
125	120	295	188	240	26	8	500	34	3	720	65	400	169,50	144	130,5	500	139,40
150	144	345	218	280	33	8	550	36	3	795	70	500	254,00	172	156,5	550	204,10
200	195	415	285	345	36	12	650	42	3	1155	90	600	295,00	223	204,5	650	220,00

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	510°C	520°C	530°C	540°C	550°C	560°C
	bar																	
(P250GH)C 22.8 (1.0460)	63	63,0	58,5	55,5	52,5	48,0	43,5	40,5	37,5	20,7	-	-	-	-	-	-	-	-
16Mo3 (1.5415)	63	63,0	63,0	63,0	63,0	61,5	54,0	51,0	48,0	46,5	35,3	27,9	22,8	17,7	14,1	-	-	-
13CrMo4-5 (1,7335)	63	63,0	63,0	63,0	63,0	63,0	62,7	60,0	57,0	54,0	46,2	41,1	34,6	28,2	23,4	18,3	14,7	12,0
GP240GH (1.0619)	63	63,0	58,5	55,5	52,5	48,0	43,5	40,5	37,5	20,7	-	-	-	-	-	-	-	-
G20Mo5 (1.5419)	63	63,0	63,0	63,0	63,0	61,5	54,0	51,0	48,0	46,5	35,3	27,9	22,8	17,7	14,1	-	-	-
G17CrMo5-5 (1.7357)	63	63,0	63,0	63,0	63,0	63,0	62,7	60,0	57,0	54,0	46,2	41,1	34,6	28,2	23,4	18,3	14,7	12,0

## MOUNTING AND OPERATING:

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

Before a valve 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 valve. Stop globe valve can be mounted to a pipe-line in any position. The direction of flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide valve's reliability the following suggestions must be observed:

- medium flowing through the valve 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.