

HV412MA / HV422MA Stop Globe Valve with Bellows - PN63/PN100

Description

The globe valve is designed to open and stop the flow. The valve is not supposed to be used as a regulating device.

Medium: water, steam and other non-toxic, non-aggressive liquid and gas media.

Sizes and pipe connections

DN15 to DN200.

HV412MA: Flanged according to EN 1092 PN63

HV422MA: Flanged according to EN 1092 PN100

On special request: Butt Weld.

Standards

The product fully complies with the requirements of the European Pressure Equipment Directive 97 / 23 / EC and carries the mark CE when so required.

Certification

The HV412MA / HV422MA are available with certification to EN 10204 3.1.

Note: All certification / inspection requirements must be stated at the time of order placement.

Pressure / temperature limits

HV412MA	
Body Design Conditions	PN63
Maximum allowable pressure	63 barg
Maximum allowable temperature DN15 - 40	560°C
Maximum allowable temperature DN50 - 200	550°C
HV422MA	
Body Design Conditions	PN100
Maximum allowable pressure	100 barg
Maximum allowable temperature DN15 - 40	560°C
Maximum allowable temperature DN50 - 200	550°C



Construction

Part	Material		
Body	Alloy steel	DN15 - 40	13CrMo4-5
	Alloy steel	DN50 - 200	G17CrMo5-5
Seat ring	Stainless steel	DN15 - 25	X17CrNi16-2
	Stainless steel	DN32 - 200	G 18 8 Mn
Disc	Stainless steel	DN15 - 25	X30Cr13
	Alloy Steel	DN32 - 200	13CrMo4-5
Disc ring	Stainless steel		G 18 8 Mn
Stem	Stainless steel		X39CrMo17-1
Bellows	Stainless steel		X6CrNiTi18-10
Gasket	Graphite / Stainless steel		
Handwheel	Cast iron		

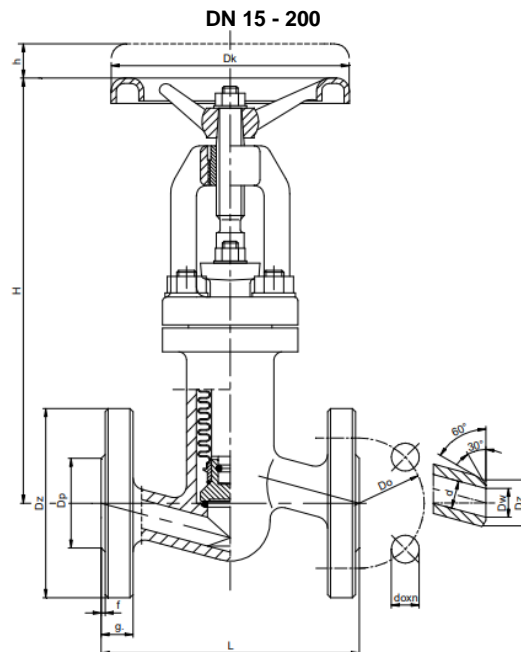
Technical data

HV412MA		Maximum working pressure (in barg) @ working temperature																
Body mat.	PN	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
13CrMo4-5	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
G17CrMo5-5	63	63,0	63,0	63,0	63,0	63,0	63,0	63,0	60,0	43,5	31,9	24,3	21,5	18,8	16,0	13,3	10,5	-
HV422MA		Maximum working pressure (in barg) @ working temperature																
Body mat.	PN	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
13CrMo4-5	100	100,0	100,0	100,0	100,0	100,0	99,5	95,2	90,4	85,7	73,4	65,2	54,9	44,7	37,1	29,0	23,3	19,0
G17CrMo5-5	100	100,0	100,0	100,0	100,0	100,0	100,0	100,0	95,2	69,1	51,8	38,6	34,2	29,8	25,4	21,1	16,7	-

Dimensions & weights (approximative) in mm / kg

HV412MA														Butt Weld			
DN	D	Dz	Dp	Do	do	n	L	g	f	H	h	Dk	Weight	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

HV422MA														Butt Weld			
DN	D	Dz	Dp	Do	do	n	L	g	f	H	h	Dk	Weight	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	21,5	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	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	195	102	145	26	4	300	28	3	340	22	200	32,30	62	54	300	21,50
65	62	220	122	170	26	8	340	30	3	415	30	280	48,60	77	69	340	33,50
80	73	230	138	180	26	8	380	32	3	505	40	360	65,90	91	81	380	52,60
100	94	265	162	210	30	8	430	36	3	645	55	360	126,50	117	104	430	100,10
125	120	315	188	250	33	8	500	40	3	720	65	400	175,50	144	127	500	145,40
150	144	355	218	290	33	12	550	44	3	795	70	500	260,00	172	154	550	210,10
200	195	430	285	360	36	12	650	52	3	1155	90	600	302,00	223	199,5	650	225,00



Installation instructions

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.

The stop globe valve can be mounted in a pipeline in any position. The direction of flow should be in-line with the arrow marked on the body. The valve should be operated strictly as it's intended. In order to provide the valve's reliability the following suggestions must be observed:

- Medium flowing through the valve is supposed to be cleaned out of any mechanical impurities;
- The valve must be protected from any mechanical damages while it's functioning
- Nominal parameters marked on the valve must be observed.