FIG.215

FLUXER
FLOOD CONTROL

STOP VALVE zGLO

Body material	Nominal pressure	Nominal diameter	Max. temperature
A Grey cast iron	**A** 6 bar **C** 16 bar	DN **15-300**	300°C
C Nodular cast iron	**C** 16 bar **D** 25 bar	DN **15-200**	350°C
E Bronze	**C** 16 bar **B** 10 bar **A** 6 bar	DN **15-125** DN **150-200** DN **250-300**	225°C
F Cast steel	**E** 40 bar	DN **15-150***	400°C
I Cast stainless steel	**E** 40 bar	DN **15-200**	400°C

CE

correspond to the pressure equipment directive 2014/68/UE
marking CE for DN≥32

FEATURES

- high tightness (leakproofness class - A acc. to EN - 12266 - 1
- compact settlement
- environment friendly
- tests acc. to EN - 12266 - 1
- face-to-face dimension according to EN 558 series 1
- flanges drilled according to EN 1092-2 for body material A, C, E
- flanges drilled according to EN 1092-1 for body material F

APPLICATION *

*not all of the applications are suitable for all of the executions

industries

INDUSTRY | SHIPBUILDING INDUSTRY | HEATING | REFRIGERATION AND AIR CONDITIONING

media

GLYCOL | INDUSTRIAL WATER | DIATHERMIC OIL | STEAM | COMPRESSED AIR | NEUTRAL FLUIDS

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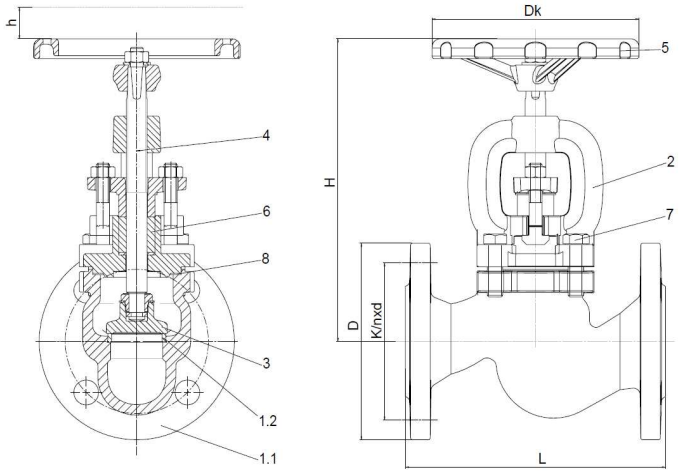
Edition 01/2018

FIG.215

MATERIALS, DIMENSIONS



	Body material	A				C			E
	Type	**00**	**01 04 71 91**	**02 05 72 92**	**03 13**	**01 04 71 91**	**02 05 72 92**	**03 13**	**03 23 73 93**
1.1	Body	EN – GJL-250 5.1301 (ex. JL1040)				EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)			CuSn5Zn5Pb5-C CC491K
1.2	Seat ring	X12Cr13 1.4006		CuSn10 – C CC480K		X12Cr13 1.4006	CuSn10 – C CC480K		CuSn5Zn5Pb5-C CC491K
2	Bonnet	EN-GJL-250 5.1301 (ex. JI1040)				EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)			CuSn5Zn5Pb5-C CC491K
3	Disc	X20Cr13 1.4021		CuSn10 – C CC480K		X20Cr13 1.4021	CuSn10 – C CC480K		CuSn5Zn5Pb5-C CC491K
4	Stem	X20Cr13 1.4021		CuZn40Mn1,5	CuSn10 – C CC480K	X20Cr13 1.4021	CuZn40Mn1,5	CuSn10 – C CC480K	CuZn35Ni
5	Hand-wheel	EN-GJS500-7 5.3200 (ex.JS1050)							
6	Gland packing	Graphite							
7	Hexagon bolt	5.6				A2-70	5.6		A2-70
8	Gasket	Graphite + NiCr							
Max. temperature		**300°C**	**300°C**	**225°C**		**350°C**	**225°C**		**225°C**

DN		**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
L (mm)		130	150	160	180	200	230	290	310	350	400	480	600	730	850
Dk (mm)		100		120		160		180	200	250		320	360		500
H		167		175	186	235	248	260	291	338	373	429	529	638	710
	215-91	189	189	205	221	249	262	298	335	377	427	476	695	826	888
h (mm)		5	5,5	7	14	20	25	35	41	31	48	54	77	120	120
	215-71 91	14	14	25	30	24	32	42	48	50	50	60	80	100	100
K_{vs} (m^3/h)		5,9	7,4	13,0	18,0	30,0	41,0	79,0	115	181	225	364	690	1010	1460
Weight (kg)															
215		3,3	3,9	5,0	6,6	9,4	12,0	17,3	22,7	35,8	52,8	74,2	126	200	315
	215-31	3,3	3,9	5,0	6,6	9,4	12,0	17,3	22,7	35,8	52,8	74,2	126	200	315
	215-71	3,3	3,9	5,0	6,6	9,4	12,5	17,6	24,0	36,8	52,6	76,5	126	200	315
	215-91	3,3	3,9	5,0	6,6	9,4	12,5	17,6	24,0	36,8	52,6	76,5	126	200	315

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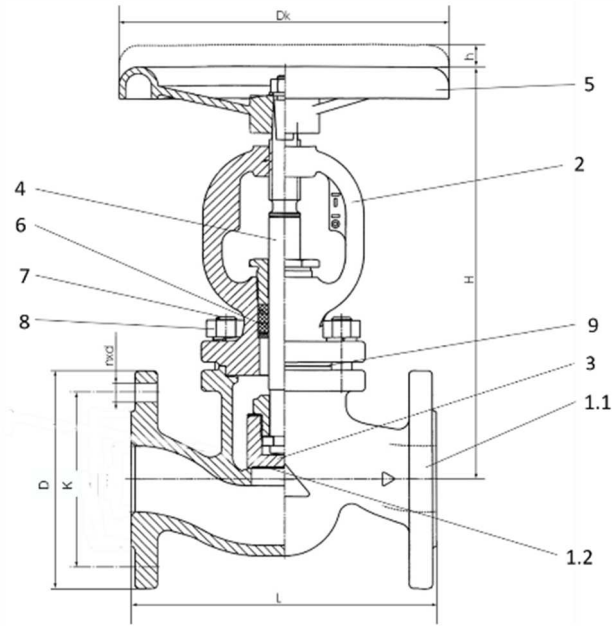
FIG.215

KV [m^3/h] FIG. 215-71, 91

Turn	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
0,5	1,49	1,56	1,08	2,14			7,7		9,5	17	29			
1	1,78	1,94	1,96	3,05	6,9	9,6	9,8	11,5	18	31	49	70	95	160
1,5	2,14	2,35												
2	2,45	2,78	3,57	5,09	12,1	16,4	18,2	21,5	37,5	58	88	130	175	280
2,5	2,78	3,18												
3	3,03	3,58	5,17	7,06	16,3	22,4	26,5	32	56	84	127	190	272	386
3,5	3,30	3,99												
4	3,64	4,54	6,44	8,89	20,2	27,6	34,1	41,5	71	108	165	250	355	489
4,5	4,15	5,35												
4,7	4,50	5,67												
5			7,4	10,4	25,0	33	41,3	50	85	132	199	303	421	585
6			8,3	11,8	28,3	39	47,9	59	103	160	232	350	487	675
7			9,2	13,1		43,5	54,8	69	121	191	263	407	551	767
8			10,6	14,1		45,1	61,6	79	139	220	294	436	611	862
8,33			10,9											
9				15,4			67,2	88	149	236	314	460	670	958
10				17,3			71	96	157	248	325	483	727	1050
10,5							75,5							
11								100			335	499	783	1140
12								104			342	514	841	1229
13												524	882	1294
13,33												528		
14													921	1354
15													955	1398
16													982	1434
16,66													1001	1453

FIG.215

MATERIALS, DIMENSIONS

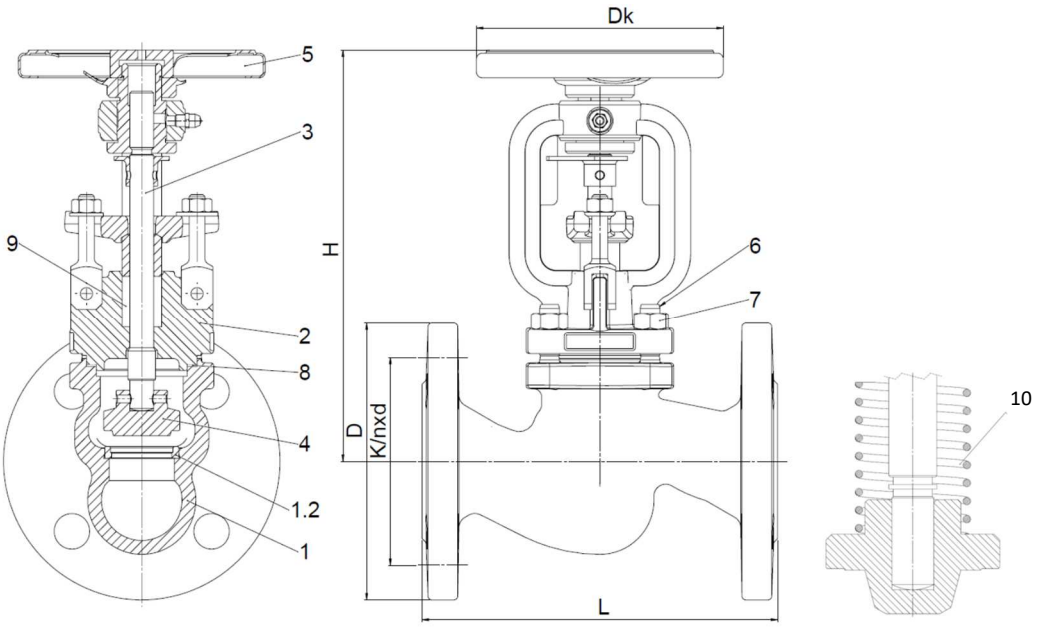


	Body material	F
	Type	**01 11 71**
1.1	Body	GP240GH+N 1.0619
1.2	Seat ring	G18 8Mn 1.4370 for type 11-Stellitee6
2	Bonnet	GP240GH+N 1.0619
3	Disc	X20Cr13 1.4021 for type 11- Stellitee6
4	Stem	X14CrMoS17 1.4104
5	Hand-wheel	EN-GJS-400-18-LT JS1025
6	Gland packing	Graphite
7	Stud bolt	42CrMo5 1.7233
8	Nut	C35E 1.1181
9	Gasket	Graphite + NiCr
Max. temperature		**400°C**

DN	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**
L (mm)	130	150	160	180	200	230	290	310	350	400	480	600
Dk (mm)	120	120	120	180	180	250	250	250	250	320	320	400
H (mm)	208	208	208	248	248	332	332	407	407	571	571	571
h (mm)	6	6	6	10	10	16,5	16,5	25	25	40	40	92
K_{vs} (m^3/h)	4,3	7,0	11,0	17,5	27,0	47,0	68,0	116,0	162,0	250,0	364,0	550,0
Weight (kg)	4,3	5,1	5,8	9,5	9,8	17,5	20,5	34	44	77	113	180

FIG.215

MATERIALS, DIMENSIONS



	Body material	I	
	Type	**09 10 12**	**39 40**
1	Body	G-X5CrNiMo19-11-2 1.4408	
1.2	Seat	X5CrNiMo17-12-2 1.4401/ stellite	
2	Bonnet	G-X5CrNiMo19-11-2 1.4408	
3	Stem	X6CrNiMoTi17-12-2 1.4571	
4	Disc	X6CrNiMoTi17-12-2 1.4571	
5	Hand-wheel	Steel	
6	Stud bolt	A4-70	
7	Nut	A4	
8	Bonnet gasket	Graphite + NiCr	
9	Gland packing	Graphite	
10	Spring	-----	X17CrNi16-2
Max. temperature		**400°C**	

DN	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**
L (mm)	130	150	160	180	200	230	290	310	350	400	480	600
Dk (mm)	125	125	125	125	200	200	250	250	300	300	400	500
H	205	205	205	210	250	250	280	320	425	470	495	613
K_{vs} (m^3/h)	5,3	8,4	12,3	22	29	44	74,8	111,5	182	232,5	337,5	1078
Weight (kg)	4,3	5,0	5,8	7,5	11,7	14,2	20,4	26,9	44,5	65,2	93	157

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FIG.215

PRESSURE-TEMPERATURE RATINGS

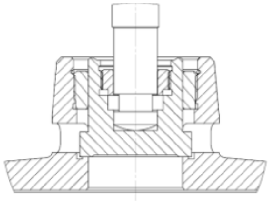
Acc. EN 1092-2	PN		-60°C ÷<-10°C	10°C÷120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-GJL250	6	bar	-----	6	5,4	4,8	4,2	3,6	---	---	---
	16		------	16	14,4	12,8	11,2	9,6	---	---	---
EN-GJS400-18 LT	16		------	16	15,5	14,7	13,9	12,8	11,2	---	---
	25		-------	25	24,3	23	21,8	20	17,5	---	---
Acc. EN 1092-1			**-20°÷<-10°C**	**10°C÷100°C**	**150°C**	**200°C**	**250°C**	**300°C**	**350°C**	**400°C**	**450°C**
GP240GH +N	40	bar	30	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1
Acc. EN 1092-1			**-60°÷<-10°C**	**10°C÷100°C**	**150°C**	**200°C**	**250°C**	**300°C**	**350°C**	**400°C**	**450°C**
G-X5CrNiMo19-11-2	40		40	40	36,3	33,7	31,8	29,7	28,5	27,4	---

FLANGE DIMENSIONS ACC. PN-EN 1092-1/-2

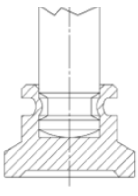
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN6	**D (mm)**	80	90	100	120	130	140	160	190	210	240	265	320	-----	-----
	K (mm)	55	65	75	90	100	110	130	150	170	200	225	280	-----	-----
	nxd (mm)	4x11	4x11	4x11	4x14	4x14	4x14	4x14	4x18	4x18	8x18	8x18	8x18	-----	------
PN16	**D (mm)**	95	105	115	140	150	165	185	200	220	250	285	340	405	460
	K (mm)	65	75	85	100	110	125	145	160	180	210	240	295	355	410
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23	12x23	12x28	12x28
PN25	**D (mm)**	95	105	115	140	150	165	185	200	235	270	300	360	-----	-----
	K (mm)	65	75	85	100	110	125	145	160	190	220	250	310	-----	-----
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	8x19	8x19	8x23	8x28	8x28	12x28	-----	------
PN40	**D (mm)**	95	105	115	140	150	165	185	200	235	270	300	375	-----	-----
	K (mm)	65	75	85	100	110	125	145	160	190	220	250	320	-----	-----
	nxd (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	-----	-----

DISC

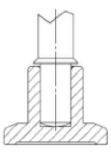
Type 04; 05; 13; 14



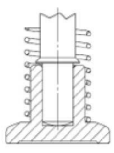
Type 00



Type 41; 42; 43



Type 31; 32; 33; 40; 39



Type 71 91

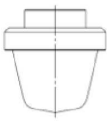


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FIG.215

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
215	**A** Grey cast iron EN-GJL-250	**15-50** mm	**A** 6 bar	**00** stem and disc connection - fixed – rolled; stem, disc and seat ring - stainless steel
		15-150 mm	**A** 6 bar	**01** stem and disc connection – nut; stem, disc and seat ring - stainless steel
		200-300 mm	**A** 6 bar	**04** stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc
		15-150 mm	**A** 6 bar	**02** stem and disc connection nut; stem - brass, disc and seat ring - bronze
		200-300 mm	**A** 6 bar	**05** stem and disc connection – nut; stem- brass, disc and seat ring – bronze; balancing disc
		15-150 mm	**A** 6 bar	**03** stem and disc connection nut; stem, disc and seat ring - bronze
		200-300 mm	**A** 6 bar	**13** stem and disc connection – nut; stem, disc and seat ring – bronze; balancing disc
		15-300 mm	**A** 6 bar	**31** loose disc with spring; stem, disc and seat ring - stainless steel
		15-300 mm	**A** 6 bar	**41** loose disc without spring; stem, disc and seat ring - stainless steel
		15-300 mm	**A** 6 bar	**32** loose disc with spring; stem - brass, disc and seat ring - bronze
		15-300 mm	**A** 6 bar	**42** loose disc without spring; stem - brass, disc and seat ring - bronze
		15-300 mm	**A** 6 bar	**33** loose disc with spring; stem, disc and seat ring - bronze
		15-300 mm	**A** 6 bar	**43** loose disc without spring; stem, disc and seat ring - bronze
		15-300 mm	**A** 6 bar	**71** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; without position indicator
		15-300 mm	**A** 6 bar	**91** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; with position indicator
		15-300 mm	**A** 6 bar	**72** stem and disc connection – nut; stem- brass, throttling disc and seat ring – bronze; throttling disc; without position indicator
		15-300 mm	**A** 6 bar	**92** stem and disc connection – nut; stem - brass, throttling disc and seat ring – bronze; throttling disc; with position indicator
		15-50 mm	**C** 16 bar	**00** stem and disc connection - fixed – rolled; stem, disc and seat ring - stainless steel
		15-150 mm	**C** 16 bar	**01** stem and disc connection – nut; stem, disc and seat ring - stainless steel
		200-300 mm	**C** 16 bar	**04** stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc
		15-150 mm	**C** 16 bar	**02** stem and disc connection nut; stem - brass, disc and seat ring - bronze
		200-300 mm	**C** 16 bar	**05** stem and disc connection – nut; stem- brass, disc and seat ring – bronze; balancing disc
		15-150 mm	**C** 16 bar	**03** stem and disc connection nut; stem, disc and seat ring - bronze

FIG.215

				200-300 mm		**C** 16 bar	**13** stem and disc connection – nut; stem, disc and seat ring – bronze; balancing disc
				15-300 mm		**C** 16 bar	**31** loose disc with spring; stem, disc and seat ring - stainless steel
				15-300 mm		**C** 16 bar	**41** loose disc without spring; stem, disc and seat ring - stainless steel
				15-300 mm		**C** 16 bar	**32** loose disc with spring; stem - brass, disc and seat ring - bronze
				15-300 mm		**C** 16 bar	**42** loose disc without spring; stem - brass, disc and seat ring - bronze
				15-300 mm		**C** 16 bar	**33** loose disc with spring; stem, disc and seat ring - bronze
				15-300 mm		**C** 16 bar	**43** loose disc without spring; stem, disc and seat ring - bronze
				15-300 mm		**C** 16 bar	**71** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; without position indicator
				15-300 mm		**C** 16 bar	**91** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; with position indicator
				15-300 mm		**C** 16 bar	**72** stem and disc connection – nut; stem- brass, throttling disc and seat ring – bronze; throttling disc; without position indicator
				15-300 mm		**C** 16 bar	**92** stem and disc connection – nut; stem - brass, throttling disc and seat ring – bronze; throttling disc; with position indicator
				15-50 mm		**C** 16 bar	**00-D** stem and disc connection - fixed – rolled; stem, disc and seat ring - stainless steel epoxy paint
				15-150 mm		**C** 16 bar	**01-D** stem and disc connection – nut; stem, disc and seat ring - stainless steel epoxy paint
				200-300 mm		**C** 16 bar	**04-D** stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc epoxy paint
215		**C** Nodular cast iron EN-GJS-400-18-LT		**15-150** mm		**C** 16 bar	**01** stem and disc connection – nut; stem, disc and seat ring - stainless steel
				200 mm		**C** 16 bar	**04** stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc
				15-150 mm		**C** 16 bar	**02** stem and disc connection nut; stem - brass, disc and seat ring - bronze
				200 mm		**C** 16 bar	**05** stem and disc connection – nut; stem- brass, disc and seat ring – bronze; balancing disc
				15-150 mm		**C** 16 bar	**03** stem and disc connection nut; stem, disc and seat ring - bronze
				200 mm		**C** 16 bar	**13** stem and disc connection – nut; stem, disc and seat ring – bronze; balancing disc
				15-200 mm		**C** 16 bar	**31** loose disc with spring; stem, disc and seat ring - stainless steel
				15-200 mm		**C** 16 bar	**41** loose disc without spring; stem, disc and seat ring - stainless steel
				15-200 mm		**C** 16 bar	**32** loose disc with spring; stem - brass, disc and seat ring - bronze
				15-200 mm		**C** 16 bar	**42** loose disc without spring; stem - brass, disc and seat ring - bronze
				15-200 mm		**C** 16 bar	**33** loose disc with spring; stem, disc and seat ring - bronze
				15-200 mm		**C** 16 bar	**43** loose disc without spring; stem, disc and seat ring - bronze

FIG.215

				15-200 mm		**C** 16 bar	**71** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; without position indicator
				15-200 mm		**C** 16 bar	**91** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; with position indicator
				15-200 mm		**C** 16 bar	**72** stem and disc connection – nut; stem- brass, throttling disc and seat ring – bronze; throttling disc; without position indicator
				15-200 mm		**C** 16 bar	**92** stem and disc connection – nut; stem - brass, throttling disc and seat ring – bronze; throttling disc; with position indicator
				15-150 mm		**D** 25 bar	**01** stem and disc connection – nut; stem, disc and seat ring - stainless steel
				200 mm		**D** 25 bar	**04** stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc
				15-150 mm		**D** 25 bar	**02** stem and disc connection nut; stem - brass, disc and seat ring - bronze
				200 mm		**D** 25 bar	**05** stem and disc connection – nut; stem- brass, disc and seat ring – bronze; balancing disc
				15-150 mm		**D** 25 bar	**03** stem and disc connection nut; stem, disc and seat ring - bronze
				200 mm		**D** 25 bar	**13** stem and disc connection – nut; stem, disc and seat ring – bronze; balancing disc
				15-200 mm		**D** 25 bar	**31** loose disc with spring; stem, disc and seat ring - stainless steel
				15-200 mm		**D** 25 bar	**41** loose disc without spring; stem, disc and seat ring - stainless steel
				15-200 mm		**D** 25 bar	**32** loose disc with spring; stem - brass, disc and seat ring - bronze
				15-200 mm		**D** 25 bar	**42** loose disc without spring; stem - brass, disc and seat ring - bronze
				15-200 mm		**D** 25 bar	**33** loose disc with spring; stem, disc and seat ring - bronze
				15-200 mm		**D** 25 bar	**43** loose disc without spring; stem, disc and seat ring - bronze
				15-200 mm		**D** 25 bar	**71** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; without position indicator
				15-200 mm		**D** 25 bar	**91** stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; with position indicator
215		**E** Bronze CuZn5Zn5Pb5-C		**15-125** mm		**C** 16 bar	**03** stem and disc connection nut; stem, disc and seat ring - bronze
				150-200 mm		**B** 10 bar	**33** loose disc with spring; stem, disc and seat ring - bronze
				250-300 mm		**A** 6 bar	**43** loose disc without spring; stem, disc and seat ring - bronze
							23 stem and disc connection – nut; with position indicator; stem, disc and seat ring - bronze
							53 loose disc with spring; with position indicator; stem, disc and seat ring - bronze
							63 loose disc without spring; with position indicator; stem, disc and seat ring - bronze
				15-125 mm		**C** 16 bar	**73** stem and disc connection – nut; throttling disc – bronze; without position indicator
				15-125 mm		**C** 16 bar	**93** stem and disc connection – nut; throttling disc - bronze ; with position indicator

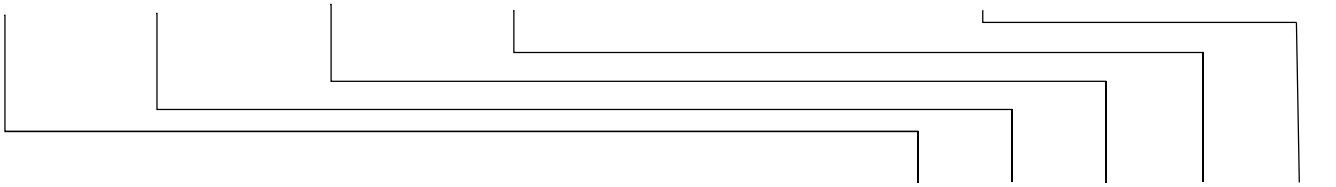
FIG.215

215		**F** Cast steel GP240GH 1.0619		**15-150** mm		**E** 40 bar		**01** stem and disc connection – nut; stem, disc and seat ring - stainless steel
				200* mm		**E** 40 bar		**04** stem and disc connection balls; stem, throttling disc and seat ring - stainless steel
				15-150 mm		**E** 40 bar		**11** stem and disc connection – nut; stem and disc - stainless steel; disc stelliteed Stellite6; seat ring - Stellite6
				15-200* mm		**E** 40 bar		**31** loose disc with spring; stem, disc and seat ring - stainless steel
				15-200* mm		**E** 40 bar		**71** stem and disc connection – nut; stem, disc and seat ring - stainless steel; throttling disc
215		**I** Cast stainless steel G-X5CrNiMo19-11-2		**15-50** mm		**E** 40 bar		**10** stop valve; seat - stainless steel
				65-100 mm		**E** 40 bar		**12** stop valve; seat - stellite
				125-200 mm		**E** 40 bar		**09** stop valve; balancing disc; seat - stellite
				15-50 mm		**E** 40 bar		**40** stop check valve; seat - stainless steel
				65-200 mm		**E** 40 bar		**39** stop check valve; seat - stellite

* DN 200, 250, 300 on request

ORDERING

Figure		**Body material**		**Nominal diameter**		**Nominal pressure**		**Type**
215		**A** Grey cast iron EN-GJL-250		**15-50** mm		**C** 16 bar		**00** stem and disc connection - fixed - rolled stem, disc and seat ring - stainless steel



Order example acc. index **215 A 050 C 00**

Bellow sealed stop valves, ends flanged, form straight	**215**
Grey cast iron EN-GJL-250	**A**
Nominal diameter (mm)	**050**
Nominal pressure PN 16	**C**
Stem and disc connection - fixed - rolled stem, disc and seat ring - stainless steel	**00**

Data given can be changed without notice. **Edition 01/2018**