

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 DN 15-80	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 15-250	450°C
I Stainless steel	E 40 bar	DN 15-250	400°C



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
- flanges drilled according to EN 1092-2 (A,C)
- flanges drilled according to EN 1092-3 (E)
- flanges drilled according to EN 1092-1 (F, I)
- face-to-face dimension according to EN 558 series 8

APPLICATION*

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

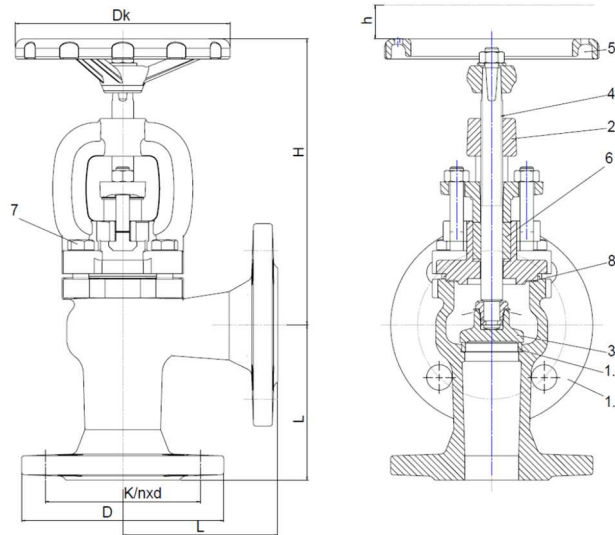
On the website www.zetkama.com.pl is a Chemical Resistance List, which specifies the parameters of work for a given medium

industries						
	INDUSTRY	SHIPBUILDING INDUSTRY	HEATING	REFRIGERATION AND AIR CONDITIONING	CHEMICAL INDUSTRY	
media						
	GLYCOL	INDUSTRIAL WATER	DIATHERMIC OIL	STEAM	COMPRESSED AIR	NEUTRAL FLUIDS

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MATERIALS, DIMENSIONS



	Body material	A				C			E
		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. JI1040)				EN – GJS-400 – 18-LT 5.3103 (ex. JS1025)			CuSn5Zn5Pb5-C CC491K
1.2	Seat ring	X12Cr13 1.4021	CuSn10 – C CC480K		X12Cr13 1.4021	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+QT 1.4021	CuSn10 – C CC480K		X20Cr13+QT 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	225°C	

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FIG.216



DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	
L (mm)	90	95	100	105	115	125	145	155	175	200	225	275	325	375	
Dk (mm)	100		120		160		180	200	250		320	360			
	03, 23, 73, 93		100		125	160		200		250		315	400		
H		163	160	173	173	214	211	236	250	301	339	383	455	531	710
	E	160	170	170	190	210	220	260	280	300	340	360	440	550	620
	91	179	176	198	206	232	235	269	290	336	374	433	625	720	779
h (mm)		5	5,5	7	14	20	25	35	41	31	48	54	77	120	120
	E	6	7	8	10	12	15	19	24	28	36	40	56	65	80
	71 91	14	14	25	30	24	32	42	48	50	50	60	80	100	100
k _{vs} (m ³ /h)	01 04	7,2	9,2	16	22	37	51	98,5	143	226	281	455	860	1260	2130
	E	7	10	15	27	39	71	108	150	235	360	510	905	1430	2040
Weight (kg)															
216		3,3	3,9	5	6,6	8,4	12	17,3	22,7	35,8	52,8	74,2	126	200	250
	E	3,8	4	5	7	9	11	16	20	25	40	50	95	155	225
	31	3,1	3,5	4,8	6,6	8,7	11,8	14	20,5	32,2	46	62	126	200	250
	71	3,1	3,5	4,8	6,6	8,8	12,3	14,3	21,8	33,2	45,8	64,3	126	200	250
	91	3,1	3,5	4,8	6,6	8,8	12,3	14,3	21,8	33,2	45,8	64,3	126	200	250

KV [m³/h] FIG. 216-71, 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	1,59	1,55	1,06	2,10	4,1	7,2	9,1	11,2	20,2	20	25			
1	1,92	1,89	1,94	3,14	6,9	9,9	12,0	14,9	30,1	34	45	90	108	164
1,5	2,27	2,32												
2	2,61	2,75	3,59	5,19	11,2	16,3	20,8	25,7	48,9	63	87	153	191	306
2,5	2,94	3,17												
3	3,26	3,59	5,14	7,22	16,5	22,8	29,1	36,4	66,2	91	126	216	271	425
3,5	3,66	4,04												
4	4,07	4,60	6,42	9,18	21,4	28,9	37,4	46,7	82	118	162	277	347	525
4,5	4,55	5,35												
4,7	4,74	5,64												
5			7,65	11,0	27,4	35,4	45,4	56,6	97	146	199	337	420	627
6			8,71	12,8	33,8	43,5	53,1	66	113	176	235	395	489	723
7			9,57	14,5		51,8	61,2	77	135	212	271	454	556	822
8			11,88	16,1		58,1	70,9	89	161	250	308	511	622	926
8,33			12,53											
9				17,8			81,3	104	187	285	347	573	687	1021
10				20,0			90,5	119	210	314	387	633	754	1131
10,5							94,3							
11								132			421	690	822	1236
12								143			454	738	898	1340
13												762	967	1446
13,33												763		
14													1037	1543
15													1101	1637
16													1147	1717
16,66													1198	1764

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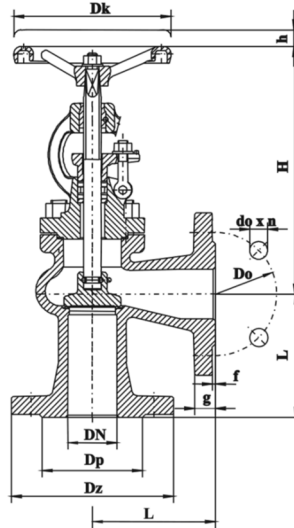
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FIG.216

MATERIALS, DIMENSIONS



	Body material	F	I
	Type	00 04	00 04
1	Body	GP240GH 1.0619	G-X5CrNiMo19-11-2 1.4408
2	Seat ring	18-8CrNi	G-X5CrNiMo19-11-2 1.4408
3	Bonnet	P245GH – DN 15-50 GP240GH – DN 65-250	X6CrNiTi18-10 - DN 15-50 G-X5CrNiMo19-11-2 – DN 65-250
4	Stem	X20Cr13	X6CrNiMoTi17-12-21.4571
5	Disc	X20Cr13 – DN 15-50 GX12Cr12 – DN 65- 80 CS+18-8 CrNi – DN 100-250	X6CrNiTi18-10– DN 15-50 GX51CrNi19-10 – DN 65- 80 X6CrNiTi18-10– DN 100-250
6	Gasket	Graphite	Graphite
Max. temperature		450°C	400°C

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
L		90	95	100	105	115	125	145	155	175	200	225	275	325
f		2	2	2	2	2	2	2	2	2	2	2	2	2
g		16	18	18	18	18	20	22	24	24	26	28	34	38
H		175	175	175	240	250	255	290	320	360	390	440	515	540
h	01	14	14	14	13	22	25	25	27	37	58	70	92	110
	31	12	12	12	10	12	16	16	20	25	40	45	60	65
Dk		120	120	120	160	160	160	200	250	320	280	320	400	500
Weight (kg)	01	4,3	4,8	5,0	10,6	12,0	15,5	28,0	37,4	50,0	61,0	86,0	167,0	253,0
	31	4,1	4,7	4,9	10,6	13,6	16,0	28,0	37,0	48,0	59,2	75,5	152,5	253,0

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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°C ÷ <-10°C	-10°C ÷ <50°C	50°C ÷ 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	
GP240GH +N	40	bar	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1	
Acc EN 1092-1			-60°C ÷ <-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	bar	40		40	36,3	33,7	31,8	29,7	28,5	27,4	---	
Acc EN 1092-3		PN				-10-120°C	150°C	180°C	200°C	225°C	350°C	400°C	450°C
CuSn5Zn5Pb5-C	16	bar	-----			16	10	10	10	10	-----	-----	-----
	10		-----			10	6	6	6	6	-----	-----	-----
	6		-----			6	4	4	4	4	-----	-----	-----

FLANGE DIMENSIONS ACC. PN-EN 1092-2 (A, C)

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	-----	-----	-----	-----	-----	-----
	K (mm)	65	75	85	100	110	125	145	160	-----	-----	-----	-----	-----	-----
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	8x19	8x19	-----	-----	-----	-----	-----	-----

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FLANGE DIMENSIONS ACC. PN-EN 1092-3 (E)

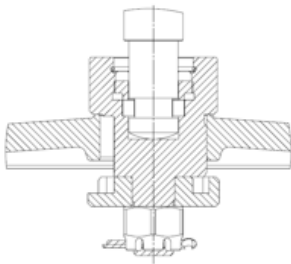
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN6	D (mm)	----	----	----	----	----	----	----	----	----	----	----	----	395	445
	K (mm)	----	----	----	----	----	----	----	----	----	----	----	----	350	400
	nxd (mm)	----	----	----	----	----	----	----	----	----	----	----	----	12x22	12x22
PN10	D (mm)	----	----	----	----	----	----	----	----	----	----	285	340	----	----
	K (mm)	----	----	----	----	----	----	----	----	----	----	240	295	----	----
	nxd (mm)	----	----	----	----	----	----	----	----	----	----	8x22	8x22	----	----
PN16	D (mm)	95	105	115	140	150	165	185	200	220	250	----	----	----	----
	K (mm)	65	75	85	100	110	125	145	160	180	210	----	----	----	----
	nxd (mm)	4x14	4x14	4x14	4x19	4x18	4x18	4x18	8x18	8x18	8x18	----	----	----	----

FLANGE DIMENSIONS ACC. PN-EN 1092-1 (F, I)

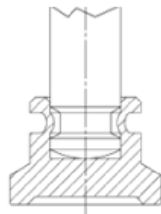
DN		15	20	25	32	40	50	65	80	100	125	150	200	250
PN40	D (mm)	95	105	115	140	150	165	185	200	235	270	300	375	450
	K (mm)	65	75	85	100	110	125	145	160	190	220	250	320	385
	nxd (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	33x12

DISC

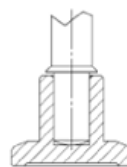
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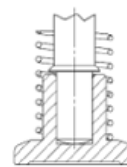
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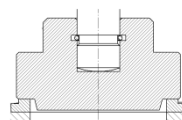
type 41 42 43



type 31 32 33



type 71 91



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FIG.216

Other type of valves on request:

- stellite seat
- hardened disc
- other

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
216	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

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FIG.216

	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
	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
216	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
	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

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FIG.216

		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
		15-80 mm	D 25 bar	01 stem and disc connection – nut; stem, disc and seat ring - stainless steel
		15-80 mm	D 25 bar	02 stem and disc connection nut; stem - brass, disc and seat ring - bronze
		15-80 mm	D 25 bar	03 stem and disc connection nut; stem, disc and seat ring - bronze
		15-80 mm	D 25 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		15-80 mm	D 25 bar	41 loose disc without spring; stem, disc and seat ring - stainless steel
		15-80 mm	D 25 bar	32 loose disc with spring; stem - brass, disc and seat ring - bronze
		15-80 mm	D 25 bar	42 loose disc without spring; stem - brass, disc and seat ring - bronze
		15-80 mm	D 25 bar	33 loose disc with spring; stem, disc and seat ring - bronze
		15-80 mm	D 25 bar	43 loose disc without spring; stem, disc and seat ring - bronze
		15-80 mm	D 25 bar	71 stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; without position indicator
		15-80 mm	D 25 bar	91 stem and disc connection – nut; stem, throttling disc and seat ring - stainless steel; throttling disc; with position indicator
216	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
216	F Cast steel GP240GH 1.0619	15-100 mm	E 40 bar	00 stem and disc connection - fixed; stem, disc and seat ring - stainless steel
		125-250 mm	E 40 bar	04 stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc
216	I Stainless steel G-X5CrNiMo19-11-2	15-100 mm	E 40 bar	00 stem and disc connection - fixed; stem, disc and seat ring - stainless steel
		125-250 mm	E 40 bar	04 stem and disc connection – nut; stem, disc and seat ring - stainless steel; balancing disc

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ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
216	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

216 A 050 C 00

Stop valves, ends flanged, angle form
 Grey cast iron EN-GJL-250
 Nominal diameter (mm)
 Nominal pressure PN 16
 Stem and disc connection - fixed - rolled stem, disc and seat ring - stainless steel

216 A 050 C 00

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