figure	234
ends form	flange straight

FLUXER
FLOOD CONTROL

BELLOW VALVE zBEL

body material	nominal pressure	nominal diameter	max. temperature
A *grey cast iron*	C 16 bar	DN 15-250	300°C
C *nodular cast iron*	C 16 bar D 25 bar	DN 15-200	350°C
F *cast steel*	E 40 bar	DN 15-150	450°C
I *cast stainless steel*	E 40 bar	DN 15-200	400°C

CE

correspond to the pressure equipment directive 214/68/UE marking CE for Dn≥32

FEATURES

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- compact settlement
- environment-friendly
- tests acc. EN - 12266 - 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
- face-to-face dimension according to EN 558-1 series 1

APPLICATION*

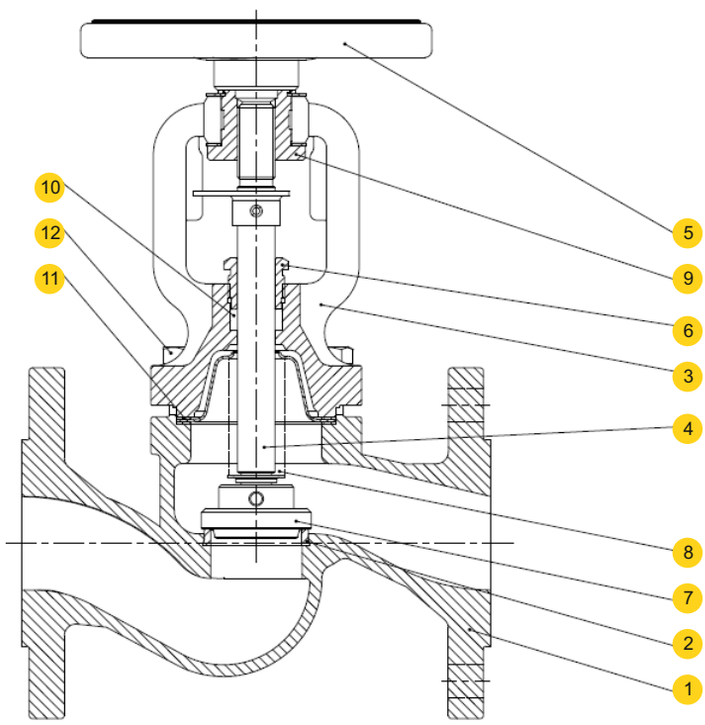
- industry
- heating
- refrigeration and air conditioning
- hot and cold industrial water
- industrial oils
- steam
- compressed air
- neutral fluids

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

figure	234
ends form	flange straight

MATERIALS

type 01;04



type 71

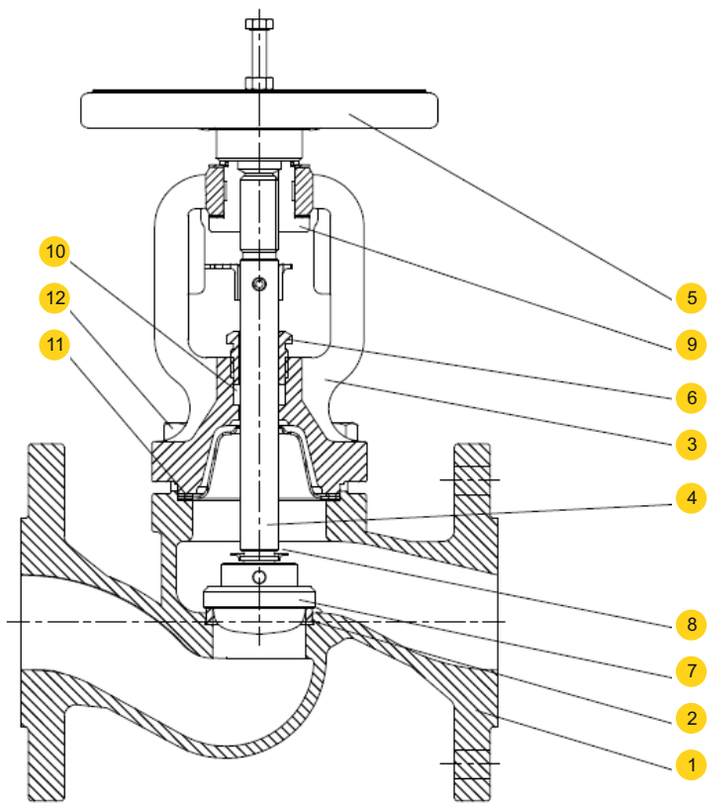


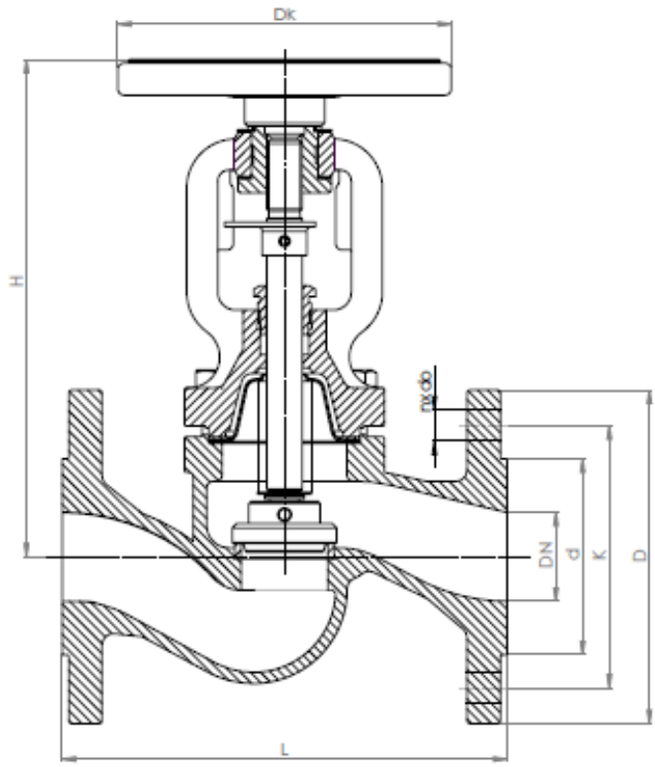
figure	234
ends form	flange straight

MATERIALS

	body material	A	C
	type	01; 04; 71	01; 04; 71
1	body	EN – GJL-250 5.1301 (ex. JI1040)	EN – GJS400 - 18-LT 5.3103 (ex.JS1025)
2	seat ring	X12Cr13 1.4006	
3	bonnet	EN – GJS400 - 18-LT 5.3103 (ex.JS1025)	
4	stem	X20Cr13 1.4021	
5	hand-wheel	steel	
6	gland	11SMnPb30	
7	disc	X20Cr13 1.4021	
8	bellow	X6CrNiMoTi-17-12-2	
9	sleeve	11SMnPb30	
10	gland packing	graphite	
11	bonnet gasket	graphite+CrNiSt	
12	hexagon bolt	8.8	A2-70
max. temperature		300°C	350°C

figure	234
ends form	flange straight

DIMENSIONS

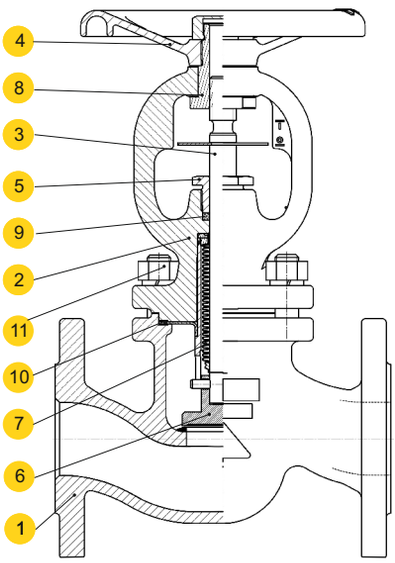


DN	PN 16				PN 25				PN 16,25						typ 71	
	D	d	K	n x do	D	d	K	n x do	Dk	h	L	H	Kvs		Kvs	
	mm												m^3/h	kg	m^3/h	kg
15	95	46	65	4x14	95	46	65	4x14	125	5	130	178	5,9	3,2	3,0	3,2
20	105	56	75	4x14	105	56	75	4x14	125	5	150	178	7,4	3,9	6,1	3,9
25	115	65	85	4x14	115	65	85	4x14	125	7	160	193	13,0	4,85	8,6	5,0
32	140	76	100	4x19	140	76	100	4x19	125	8	180	201	18,0	6,5	13,3	6,7
40	150	84	110	4x19	150	84	110	4x19	150	10	200	224	30,0	9,0	23,2	9,3
50	165	99	125	4x19	165	99	125	4x19	150	13	230	228	41,0	11,0	31,8	11,5
65	185	118	145	4x19	185	118	145	8x19	175	17	290	270	79,0	15,8	55,8	16,3
80	200	132	160	8x19	200	132	160	8x19	200	20	310	295	115	24,3	78,5	21,4
100	220	156	180	8x19	235	156	190	8x23	250	25	350	325	181	35,0	127,1	36,0
125	250	184	210	8x19	270	184	220	8x28	300	32	400	380	225	49,0	201,5	51,5
150	285	211	240	8x23	300	211	250	8x28	400	38	480	427	364	76,0	272,9	78,0
200	340	266	295	12x23	360	274	310	12x28	500	50	600	569	725	130,5	532,0	130,5
250	405	319	355	12x28	-	-	-	-	500	63	730	645	-	210	-	-

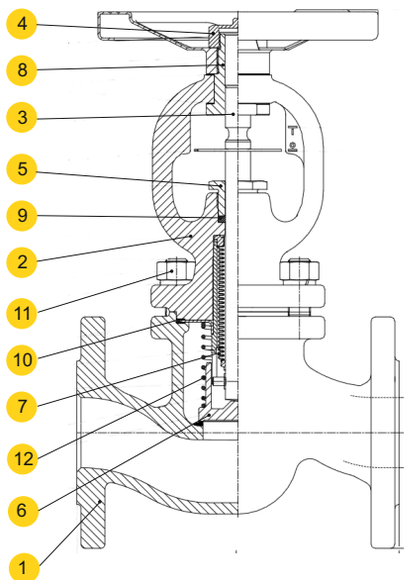
*- for DN200 type 71 Dk = 400

figure	234
ends form	flange straight

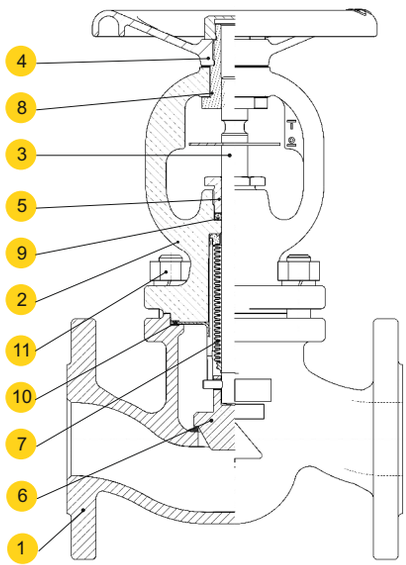
MATERIALS



Type 01,04,11,14



type 31,41

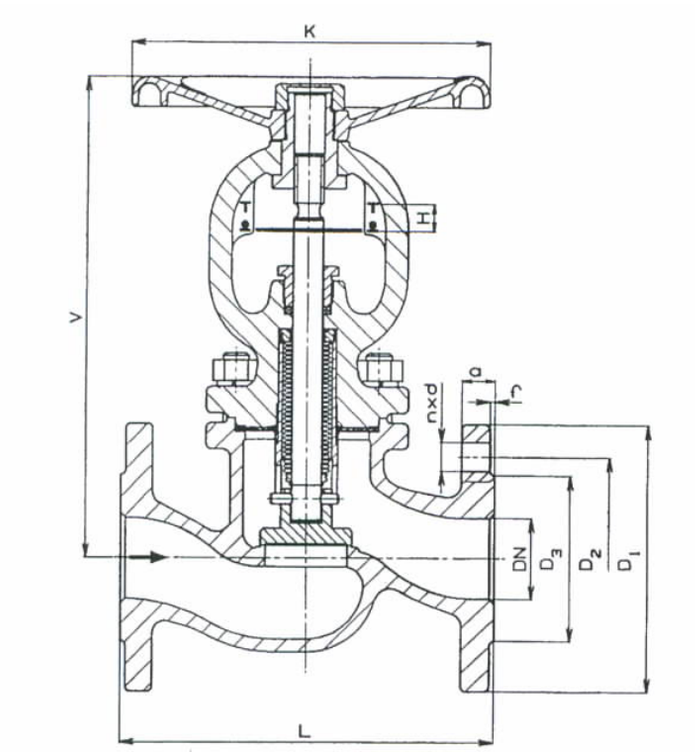


type 71

	body material	F			
	type	01	11,14	31,41	71
1	body	GP240GH			
2	bonnet	GP240GH			
3	stem	X8CrNiS18-9 1.4305			
4	hand-wheel	Steel			
5	gland	11SMnPb30			
6	disc	Stop disc X20Cr13 1.4021	Stop disc and seat with Stellit6 surfacel	SDNR valve	Throttling disc X20Cr13 1.4021
7	bellow	X6CrNiTi-18-10			
8	sleeve	11SMnPb30			
9	gland packing	Graphite			
10	bonnet gasket	Graphite+CrNiSt			
11	bolt and nut	A2-70			
12	spring	1.4310			
	max. temperature	400°C			

figure	234
ends form	flange straight

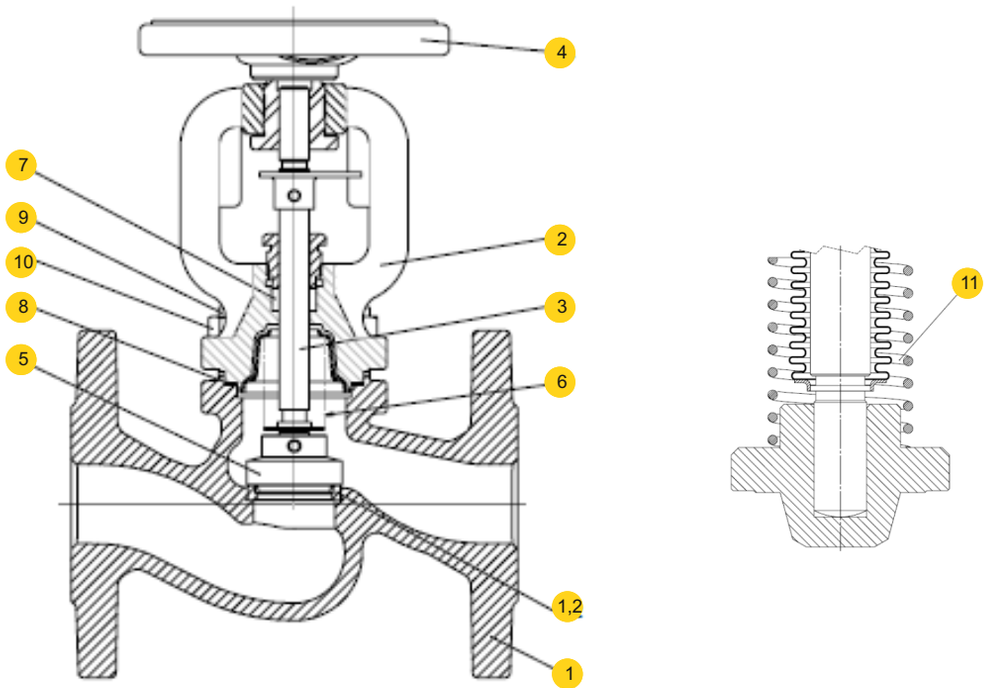
DIMENSIONS



DN	PN 40										
	D1	D3	D2	n x d	K	H	L	V	a	Kvs	
										m³/h	
15	95	45	65	4x14	125	6	130	189	16	4,3	4,3
20	105	58	75	4x14	125	6	150	189	18	7,0	5,1
25	115	68	85	4x14	125	6	160	189	18	11,0	5,8
32	140	78	100	4x18	150	10	180	220	18	17,5	9,5
40	150	88	110	4x18	150	10	200	220	18	27,0	9,8
50	165	102	125	4x18	200	16,5	230	295	20	47,0	17,5
65	185	122	145	8x18	200	16,5	290	295	22	68,0	20,5
80	200	138	160	8x18	300	25	310	368	24	116	34,0
100	235	162	190	8x22	300	25	350	368	24	162	44,0
125	270	188	220	8x26	400	40	400	523	26	250	77,0
150	300	218	250	8x26	400	40	480	523	28	364	110

figure	234
ends form	flange straight

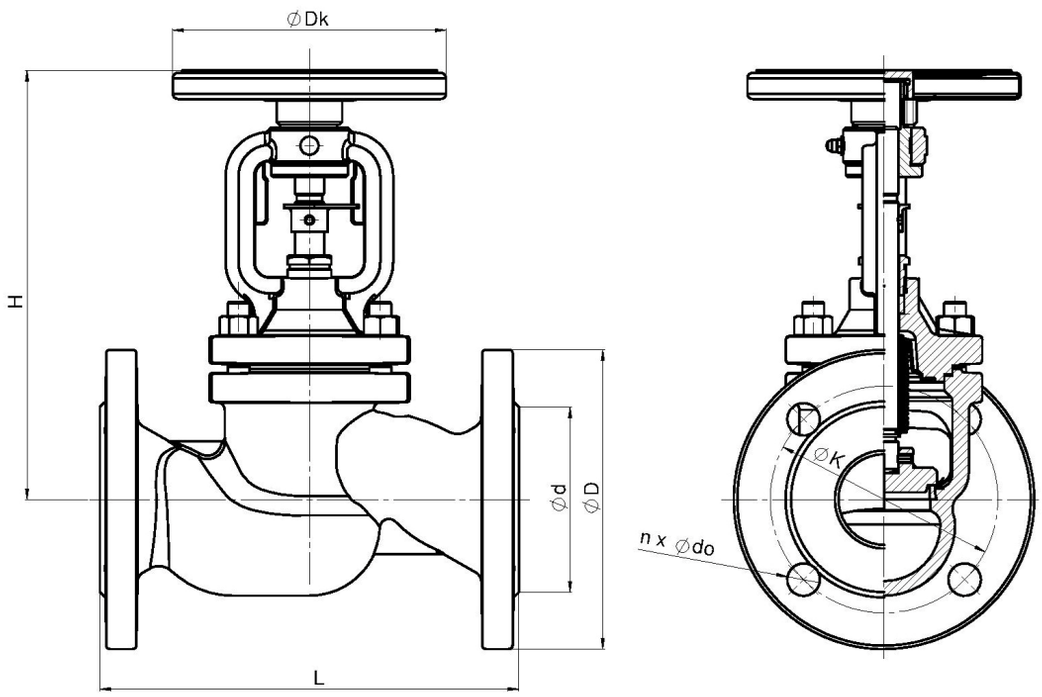
MATERIALS



	body material	I	
	type	09; 10; 12	39; 40
1	body	G-X5CrNiMo19-11-2 1.4408	
1.2	seat	X5CrNiMo 17-12-2 1.4401/ stellit	
2	bonnet	G-X5CrNiMo19-11-2 1.4408	
3	stem	X6CrNiMoTi17-12-2 1.4571	
4	hand-wheel	steel	
5	disc	X6CrNiMoTi17-12-2 1.4571	
6	bellow	X6CrNiMoTi17-12-2 1.4571	
7	gland packing	graphite	
8	bonnet gasket	graphite+CrNiSt	
9	stud bolt	A4-70	
10	nut	A4	
11	spring	----	X17CrNi16-2 1.4057
	max temperature	400°C	

figure	234
ends form	flange straight

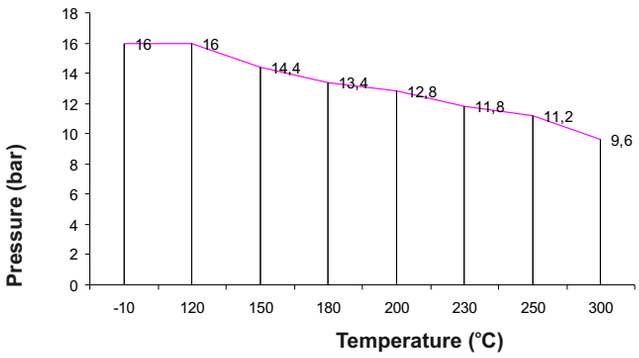
DIMENSIONS



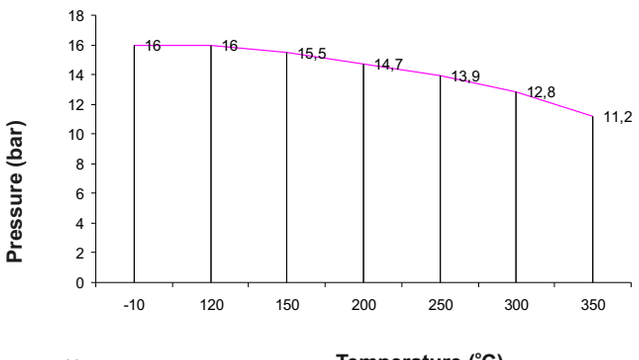
DN	PN40								
	L	H	Dk	D	d	K	dxn	Kv	
	mm							m^3/h	kg
15	130	190	125	95	45	65	14x4	6,0	3,8
20	150	190	125	105	58	75	14x4	8,7	4,9
25	160	190	125	115	68	85	14x4	15,5	5,7
32	180	195	125	140	78	100	18x4	25,3	7,4
40	200	240	200	150	88	110	18x4	28,7	10,7
50	230	240	200	165	102	125	18x4	46,4	13,1
65	290	270	250	185	122	145	18x8	76,4	19,5
80	310	300	250	200	138	160	18x8	113,1	25,7
100	350	450	300	235	162	190	22x8	180	43,9
125	400	520	300	270	188	220	26x8	238,7	64,8
150	480	570	400	300	218	250	26x8	358,2	95
200	600	627	500	375	285	320	30x12	-	152

figure	234
ends form	flange straight

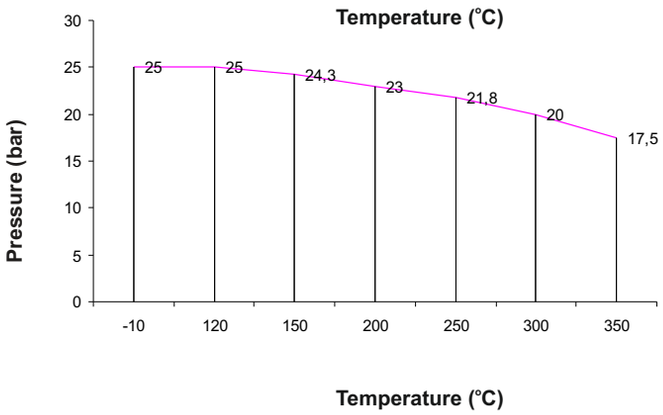
PRESSURE-TEMPERATURE RATINGS



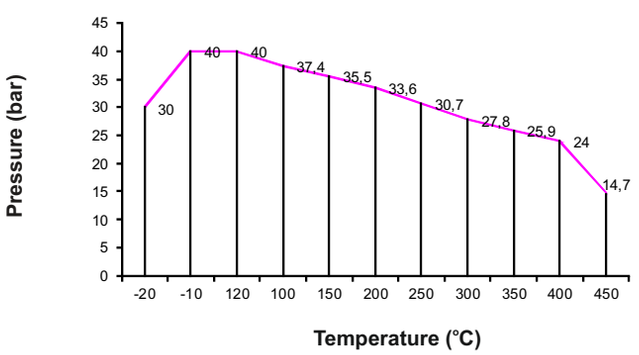
Allowed working conditions range
PN 16 EN-GJL-250 5.1301



Allowed working conditions range
PN 16 EN-GJS-400-18-LT 5.3103



Allowed working conditions range
PN 25 EN-GJS-400-18-LT 5.3103



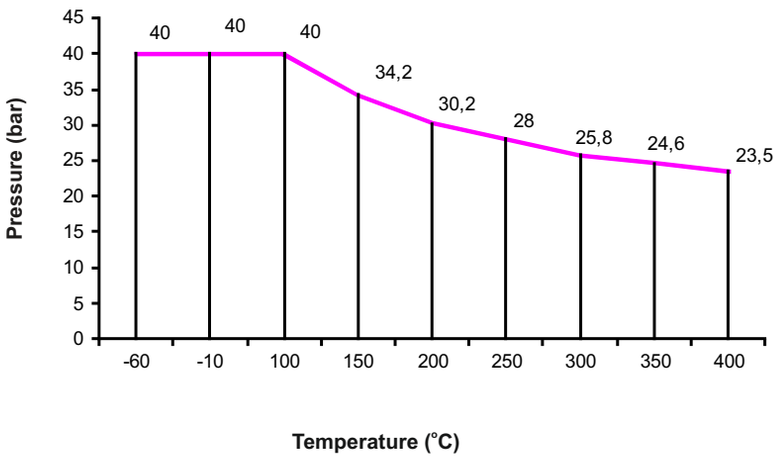
Allowed working conditions range
PN 40 GP24GH 1.0619

Allowable pressure difference which can be observed on both sides of the closing element
Refers for valves in F execution

Ti	Allowable pressure difference [bar]		
	DN10 - 100	DN125	DN150
PN40	40	33	21

figure	234
ends form	flange straight

PRESSURE-TEMPERATURE RATINGS



Allowed working conditions range
PN 40 G-XCrNiMo19-11-2 1.4408

figure	234
ends form	flange straight

TYPES

figure	body material	nominal diameter DN	nominal pressure PN	type
234	A grey cast iron EN-GJL-250	15-150 mm	C 16bar	01 Tmax 300 °C — stem connected with bellow • stem, disc, bellow and seat ring - stainless steel
		200-250 mm	C 16bar	04 Tmax 300 °C — stem connected with bellow • stem, balancing disc, bellow and seat ring - stainless steel
		15-200 mm	C 16bar	71 Tmax 300 °C — stem connected with bellow • stem, throttling disc, bellow and seat ring - stainless steel
	C nodular cast iron EN-GJS-400-18-LT	15-150 mm	C 16bar	01 Tmax 350 °C — stem connected with bellow • stem, disc, bellow and seat ring - stainless steel
		200 mm	C 16bar	04 Tmax 350 °C — stem connected with bellow • stem, balancing disc, bellow and seat ring - stainless steel
		15-200 mm	C 16bar	71 Tmax 350 °C — stem connected with bellow • stem, throttling disc, bellow and seat ring - stainless steel
		15-150 mm	D 25bar	01 Tmax 350 °C — stem connected with bellow • stem, disc, bellow and seat ring - stainless steel
		200 mm	D 25bar	04 Tmax 350 °C — stem connected with bellow • stem, balancing disc, bellow and seat ring - stainless steel
		15-200 mm	D 25bar	71 Tmax 350 °C — stem connected with bellow • stem, throttling disc, bellow and seat ring - stainless steel
	F cast steel GP240GH 1.0619	15-150 mm	E 40bar	01 Tmax 450 °C — stem connected with bellow • stem, disc, bellow and seat ring - stainless steel
		15-150 mm	E 40bar	11 Tmax 450 °C — stem connected with bellow; stem, disc; bellow - stainless steel ; seat - Stellit
		15-150 mm	E 40bar	71 Tmax 450 °C — stem connected with bellow • stem, throttling disc, bellow and seat ring - stainless steel
		15-150 mm	E 40bar	31 Tmax 450 °C — stem connected with bellow • lose disc with spring • stem, disc,spring, bellow and seat ring - stainless steel
		15-150 mm	E 40bar	41 Tmax 450 °C — stem connected with bellow • lose disc without spring • stem, disc,spring, bellow and seat ring - stainless steel

figure	234
ends form	flange straight

TYPES

figure	body material	nominal diameter DN	nominal pressure PN	type
234	I cast stainless steel G-X5CrNiMo19-11-2 1.4408	15-50 mm	E 40bar	10 Tmax 400 °C • stem and disc connection - nut • stem, disc and seat - acid resistant steel
		65-100 mm	E 40bar	12 Tmax 400 °C • stem and disc connection - nut • stem, disc - acid resistant steel ; seat - stellit
		125-200 mm	E 40bar	09 Tmax 400 °C • stem connected with bellow; stem, balancing disc, bellow - stainless steel ; seat - Stellit
		15-50 mm	E 40bar	40 Tmax 400 °C • loose disc with spring • stem, disc and seat - acid resistant steel
		65-200 mm	E 40bar	39 Tmax 400 °C • loose disc with spring • stem, disc - acid resistant steel; seat - stellit

ORDERING

To place an order please use our product number (index)

figure	body material	nominal diameter DN	nominal pressure PN	type
234	A	040	C	01

ORDER EXAMPLE 234 A 040 C 01

bellow sealed stop valves, ends flanged, form straight	234
grey cast iron EN-GJL-250	A
nominal diameter DN40	040
nominal pressure PN16	C
stem connected with bellow • stem, disc and seat ring stainless steel	01