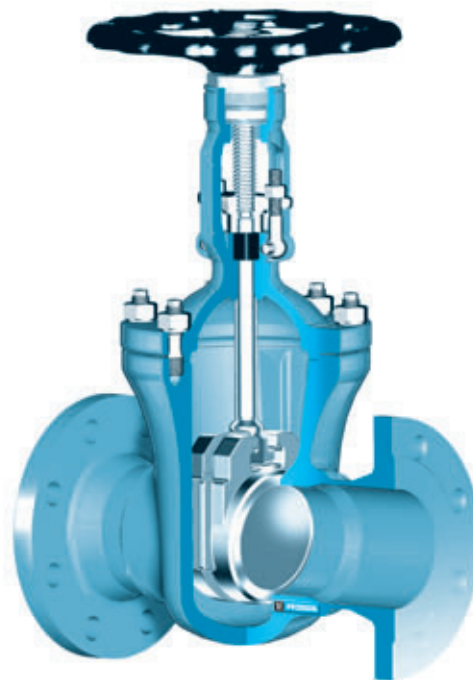
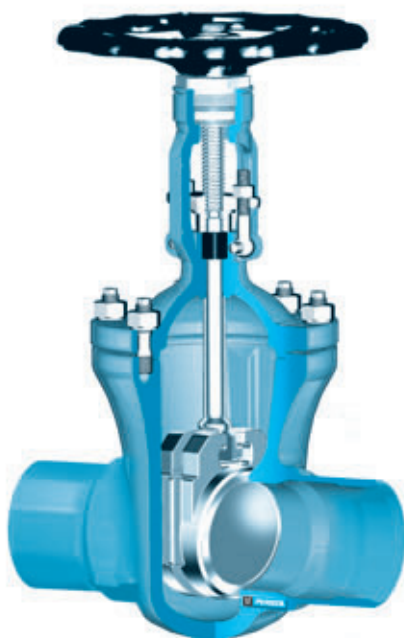


■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150



Pressure rate table acc. DIN 2401

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550
1.0619	16	16,0	16,0	16,0	15,0	14,0	13,0	11,0	10,0	8,0										
	25	25,0	25,0	25,0	23,0	22,0	20,0	17,0	16,0	13,0										
	40	40,0	40,0	40,0	37,0	35,0	32,0	28,0	24,0	21,0										
	10 ²⁾	10,0	10,0	10,0	9,6	8,8	8,1	6,9	6,3	5,0										
1.0460	16	16,0	16,0	16,0	15,3	14,0	13,0	11,0	10,0	8,0										
	25	25,0	25,0	25,0	23,9	22,0	20,0	17,0	16,0	13,0										
	40	40,0	40,0	40,0	38,1	35,0	32,0	28,0	24,0	21,0										
	63	63,0	63,0	63,0	58,1	50,0	45,0	40,0	36,0	32,0										
	100	100,0	100,0	100,0	92,5	80,0	70,0	60,0	56,0	50,0										
	10 ²⁾	10,0	10,0	10,0	10,0	9,0	8,0	7,0												
1.0566 ^{3,4)}	16 ²⁾	16,0	16,0	16,0	16,0	15,0	14,0	13,0	11,0											
	25 ²⁾	25,0	25,0	25,0	25,0	24,0	22,0	20,0	17,0											
	40 ²⁾	40,0	40,0	40,0	40,0	39,0	35,0	31,0	28,0											
	63 ²⁾	63,0	63,0	63,0	63,0	61,0	55,0	49,0	44,0											
	100 ²⁾	100,0	100,0	100,0	100,0	96,0	88,0	79,0	70,0											
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	8,8	8,0	7,6	7,2	6,8								
1.5415	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	14,1	12,8	12,2	11,5	10,9								
	25	25,0	25,0	25,0	25,0	25,0	25,0	22,0	20,0	19,0	18,0	17,0								
	40	40,0	40,0	40,0	40,0	40,0	40,0	35,0	31,0	30,0	29,0	28,0								
	63	63,0	63,0	63,0	63,0	63,0	63,0	56,0	50,0	47,0	46,0	45,0								
	100	100,0	100,0	100,0	100,0	100,0	100,0	87,0	78,0	74,0	72,0	70,0								
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,6	9,2	8,8	8,4	8,0	7,2	6,0	4,8	3,6				
1.7335	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,4	14,7	14,1	13,4	12,8	11,5	9,6	7,7	5,8				
	25	25,0	25,0	25,0	25,0	25,0	25,0	24,0	23,0	22,0	21,0	20,0	18,0	15,0	12,0	9,0				
	40	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,0	35,0	34,0	33,0	29,0	24,0	19,0	15,0				
	63	63,0	63,0	63,0	63,0	63,0	63,0	61,0	58,0	57,0	56,0	53,0	47,0	40,0	32,0	25,0				
	100	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,0	74,0	62,0	49,0	38,0				
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,5	9,1	8,9	8,7	8,3	7,4	6,3	5,0	4,4	3,8	3,3		
1.7383	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,2	14,6	14,2	13,9	13,2	11,8	10,0	7,9	7,0	6,0	5,2		
	25 ²⁾	25,0	25,0	25,0	25,0	25,0	25,0	23,8	22,8	22,3	21,8	20,6	18,4	15,6	12,4	10,9	9,4	8,1		
	40 ²⁾	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,4	35,6	34,8	33,0	29,5	25,0	19,8	17,4	15,1	13,0		
	63 ²⁾	63,0	63,0	63,0	63,0	63,0	63,0	60,8	58,2	57,0	55,7	52,8	47,2	40,0	31,7	27,8	24,2	20,8		
	100 ²⁾	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,5	73,8	62,5	49,5	43,5	37,8	32,5		
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,5	9,1	8,9	8,7	8,3	7,4	6,3	5,0	4,4	3,8	3,3		

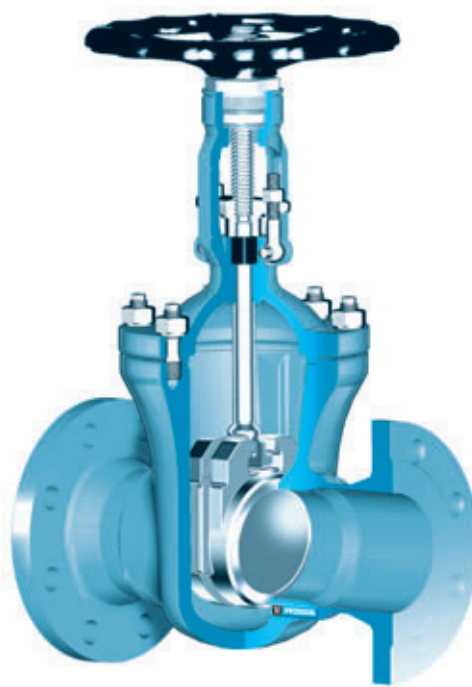
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) Pressure rating not applicable in design code

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

4) At temperature > 50 °C only applicable for short time service.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

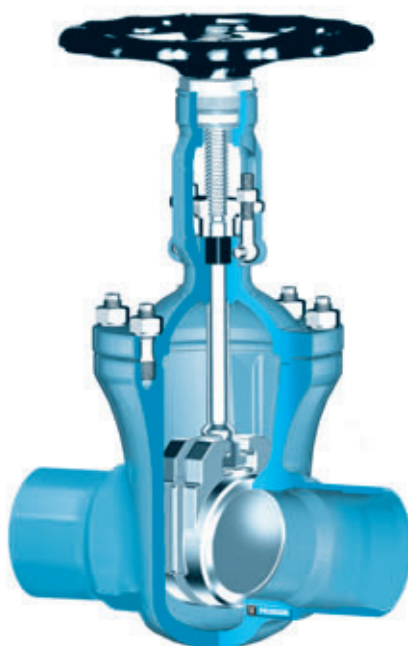


Pressure rate table acc. DIN EN 1092-1

		Admissible operating pressure [bar] at design temperature [°C] ¹⁾																											
Material	PN	-10	20	50	100	150	200	250	300	350	400	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600		
1.0619	16	160	160	160	148	140	133	121	110	102	95	52																	
	25	250	250	250	232	220	208	190	172	160	148	82																	
	40	400	400	400	371	352	333	304	276	257	238	131																	
1.0460	10	100	100	100	92	88	83	76	69	64	59	32																	
	16	160	160	160	148	140	133	121	110	102	95	52																	
	25	250	250	250	232	220	208	190	172	160	148	82																	
	40	400	400	400	371	352	333	304	276	257	238	131																	
	63	630	630	630	585	555	525	480	435	405	375	207																	
	100	1000	1000	1000	928	880	833	761	690	642	595	328																	
1.5415	10	100	100	100	100	100	100	97	85	80	74	69	64	59	54	49	44	35	28	22									
	16	160	160	160	160	160	160	156	137	129	119	110	102	94	86	78	70	56	44	35									
	25	250	250	250	250	250	250	244	214	202	186	172	160	147	135	123	110	88	70	55									
	40	400	400	400	400	400	400	390	342	323	299	276	256	236	216	197	177	140	112	89									
	63	630	630	630	630	630	630	615	540	510	471	435	403	372	341	310	279	222	177	141									
	100	1000	1000	1000	1000	1000	1000	976	857	809	747	690	640	591	542	492	442	352	280	223									
1.7335	10	100	100	100	100	100	100	100	95	90	84	80	76	72	68	65	55	44	37	29	23	19	15						
	16	160	160	160	160	160	160	160	152	144	134	128	121	115	108	104	88	71	59	46	37	30	25						
	25	250	250	250	250	250	250	250	238	225	210	200	190	180	170	163	138	111	93	72	58	47	39						
	40	400	400	400	400	400	400	400	380	360	337	320	304	288	272	260	220	179	148	116	93	76	62						
	63	630	630	630	630	630	630	630	600	567	531	505	479	454	428	411	348	282	234	183	147	120	99						
	100	1000	1000	1000	1000	1000	1000	1000	952	900	842	802	761	720	680	652	552	447	371	290	233	190	157						
1.7383	10	100	100	100	100	100	100	100	97	92	88	83	78	73	69	64	56	49	42	37	32	27	24	20	18	16			
	16	160	160	160	160	160	160	160	156	148	140	133	125	118	110	102	89	78	68	59	51	44	38	33	28	25			
	25	250	250	250	250	250	250	250	244	232	220	208	196	184	172	160	140	122	107	92	80	69	60	52	45	40			
	40	400	400	400	400	400	400	400	390	371	352	333	314	295	276	257	224	196	171	148	129	110	97	83	72	64			
	63	630	630	630	630	630	630	630	615	585	555	525	495	465	435	405	354	309	270	234	204	174	153	132	114	102			
	100	1000	1000	1000	1000	1000	1000	1000	976	928	880	833	785	738	690	642	561	490	428	371	323	276	242	209	180	161			

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150



Pressure rate table only valid for butt weld ends

Admissible operating pressure [bar] at design temperature [°C] ¹⁾																															
Material	PD	-60	-10	20	100	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600
1.0460	1,0	100	100	100	100	97	85	75	64	59	49	46	44	42	39	35	29	24													
	1,6	160	160	160	160	151	132	118	102	95	76	73	69	65	61	54	45	37													
	2,5	250	250	250	250	245	215	192	161	148	124	118	112	106	100	88	74	61													
	4,0	400	400	400	400	395	346	309	276	238	200	190	180	171	161	142	119	98													
	6,3	630	630	630	630	603	527	471	405	375	305	290	275	260	245	217	181	149													
	10,0	1000	1000	1000	1000	940	820	740	642	595	480	450	430	410	380	340	280	230													
1.0566 ²⁾³⁾	1,0	100	1021	1021	100	100	90	80	70																						
	1,6	160	163	163	160	150	140	130	110																						
	2,5	250	255	255	250	240	220	200	170																						
	4,0	400	408	408	400	390	350	310	280																						
	6,3	630	643	643	630	610	550	490	440																						
	10,0	1000	1021	1021	1000	960	880	790	700																						
1.5415	1,0	120	120	120	120	115	106	91	88	85	84	83	83	82	82	81	80	80	70	54	41	33	26								
	1,6	190	190	190	190	179	165	142	137	132	131	130	129	128	127	126	125	125	109	85	65	51	41								
	2,5	300	300	300	300	291	268	230	222	215	213	212	210	209	207	205	204	202	177	138	105	83	66								
	4,0	480	480	480	480	470	432	371	358	346	344	341	339	336	334	331	329	326	285	222	169	133	107								
	6,3	770	770	770	770	716	659	565	546	527	524	520	516	512	509	505	501	497	434	339	258	203	163								
	10,0	1200	1200	1200	1200	1120	1030	880	850	820	820	810	810	800	790	790	780	780	680	530	400	320	250								
1.7335	1,0	120	120	120	120	120	121	112	106	100	98	97	96	95	94	93	92	92	91	83	70	55	45	36	28	23	19				
	1,6	190	190	190	190	190	189	175	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29				
	2,5	300	300	300	300	300	300	284	268	253	250	247	244	241	238	236	235	233	232	210	177	140	114	92	72	59	48				
	4,0	480	480	480	480	480	480	457	433	408	403	398	393	388	383	381	378	376	373	339	285	225	184	148	116	95	77				
	6,3	770	770	770	770	770	753	697	659	622	614	606	599	591	584	580	576	573	569	516	434	344	280	226	176	145	118				
	10,0	1200	1200	1200	1200	1200	1180	1090	1030	970	960	950	940	920	910	910	900	890	880	810	680	540	440	350	280	230	180				
1.7383	1,0	120	120	120	120	120	120	112	106	104	103	102	101	100	98	97	96	92	82	71	62	54	47	41	35	31	27	23	20		
	1,6	190	190	190	190	190	190	170	170	160	160	160	160	160	150	150	150	140	130	110	100	80	70	60	50	40	30				
	2,5	300	300	300	300	300	300	300	280	270	270	260	260	260	250	250	250	240	230	210	180	160	140	120	100	90	80	70	60	50	
	4,0	480	480	480	480	480	480	480	460	430	430	420	420	410	410	400	400	390	380	330	290	250	220	190	170	140	130	110	90	80	
	6,3	770	770	770	770	770	770	750	700	660	650	640	640	630	620	610	610	600	570	510	440	390	340	290	260	220	190	170	140	130	
	10,0	1200	1200	1200	1200	1200	1200	1180	1090	1030	1020	1010	990	980	970	960	950	940	890	790	690	610	530	460	400	340	300	260	220	200	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperatures > 50 °C only applicable for short time service.

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

Standard features

- Spit wedge = Type 700 JJ
- Flexible wedge = Type 700 HJ
- Die-forged body and bonnet
- Full bore,
exception DN 65/50 and DN 125/100
- Outside screw and yoke
- Non turning, rising stem
- Yoke sleeve
- Available with flange and
buttweld ends

Option Version GA

- Split wedge / Flexible wedge
- Inside screw
- Non-rising turning stem

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Acc. to PERSTA PD 10 up to 120 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.0619 just for flange type PN 10-40
- 1.0566
- 1.5415
- 1.7335
- 1.7383

Further materials on request

Media

Depending on the material the gate valves are suitable for water, gas, oil and other non aggressive media

Fields of application

Chemical industries, power plants, ship building and other

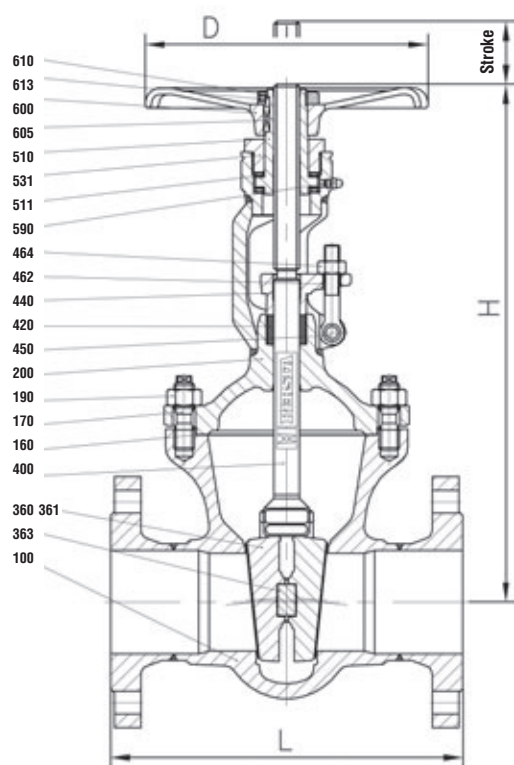
Design Highlights

- The main valve body is one-piece die-forged incorporating the bonnet flange and the guide for the shut-off device
- Hard faced seats (valve body and shut-off device).
Hardness app. 35-37 HRC
- Bolted bonnet with reduced shaft bolts
- Full bore, except DN 65/50 and DN 125/100
- Non - turning rising stem
- Type GA, turning non-rising stem

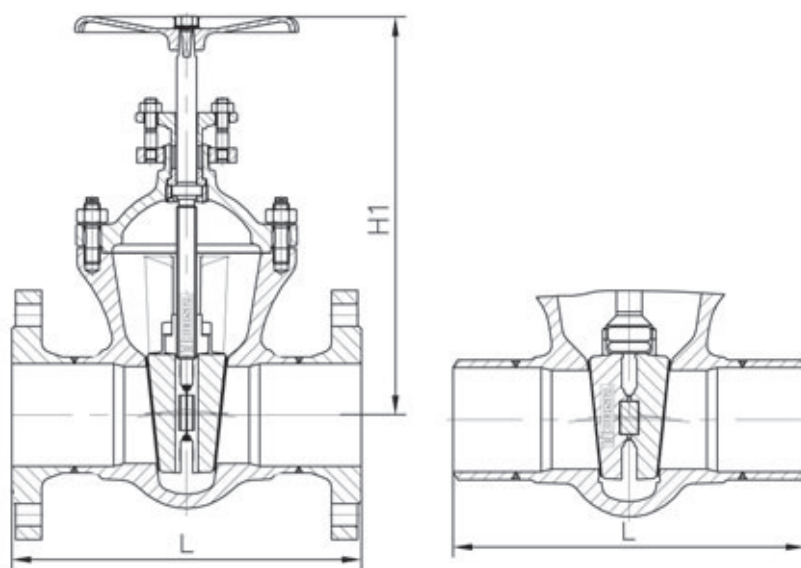
Benefits

- Die-forged parts, compared with cast steel parts are generally free from porosity and shrink holes. The special of the valve body minimizes the existence of welding seams
- Extremely resistant to wear
- To improve the stress capability when temperature and pressure fluctuate
- No reduction in seat area
- Minimum wear to the gland packing compared with ground stem surfaces
- Small dimensions

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150



700 GA



■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

Materials							
Pos.	Component	1.0619 (11) PN 10-40	1.0460 (21)	1.0566 (25)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0619 ¹⁾	1.0460 ¹⁾	1.0566 ¹⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
160	▶ Gasket	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾
170	Stud	1.7709	1.7709	A4-70	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	A4-70	1.7218	1.7218	1.7218
200	Bonnet	1.0460	1.0460	1.0566	1.5415	1.7335	1.7383
360/361	▶ Disc	1.0460 ³⁾	1.0460 ³⁾	1.0566 ³⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
363	Pressure piece	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
400	▶ Stem	1.4021	1.4021	1.4571	1.4122	1.4122	1.4122
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.0460	1.0460	1.0460
450	Grooved pin	St	St	1.4571	St	St	St
462	Eye bolt	1.1181	1.1181	A4-50	1.1181	1.1181	1.1181
464	Hexagonal nut	1.1181	1.1181	A4-70	1.1181	1.1181	1.1181
510	▶ Yoke sleeve	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
511	▶ Roller bearing	WLS	WLS	WLS	WLS	WLS	WLS
531	Yoke nut	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8	5.8	5.8	5.8
600	Handwheel	0.7040	0.7040	0.7040	0.7040	0.7040	0.7040
605	Key	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060
610	Hexagonal pipe nut	St	St	St	St	St	St
613	Screw pin	45H	45H	45H	45H	45H	45H
▶ Spare parts							
1) Welded on with Cr17							
2) Welded on with Stellite							
3) Welded on with 18/8							
4) DN 150 grooved with graphite layer							
Attention: Ki-Gate-Valve 700 GA only in material 1.0460							

Dimensions/mm										Weights/kg and Kvs-values											
PN DN								700 GA	GS-C25N									700 GA			Kvs (m3/h)
	10-25 L	40-100 L	10-40 H	63-100 H	Stroke	10-40 D	63-100 D	H1	10-25 FL	40 FL	10-25 FL	40 FL	63 FL	100 FL	10-40 BW	63-100 BW	10-25 FL	40 FL	10-40 BW		
50	250	250	337	337	63	180	180	280	21,5	21,5	19,0	19,0	23,5	26,5	15,0	15,5	19,0	19,0	15,0	258,0	
65 / 50	270	290	337	337	63	180	180	280			21,0	21,0	26,0	30,5	15,5	16,0	21,0	21,0	28,0	258,0	
80	280	310	410	410	90	225	225	345	40,0	40,0	35,0	35,0	40,5	45,0	28,0	31,0	35,0	35,0	28,0	628,0	
100	300	350	455	505	110	280	360	405	57,0	61,5	50,0	54,0	63,0	71,0	43,0	47,0	50,0	54,0	43,0	991,0	
125 / 100	325	400	455	505	110	280	360	405			53,5	59,0	74,0	89,0	45,0	49,0	53,0	59,0	45,0	991,0	
150	350	450	655	685	165	360	450	525	114,0	120,0	92,0	98,0	138,0	155,0	80,0	100,0	92,0	98,0	80,0	2323,0	