



Válvulas Industriales

- Válvulas de globo
- Válvulas de Compuerta
- Válvulas de Retención



válvulas e instrumentación, s.l.

Ctra. Rubí-Sabadell, km.13, nave 86

CP 08191 Rubí (Barcelona)

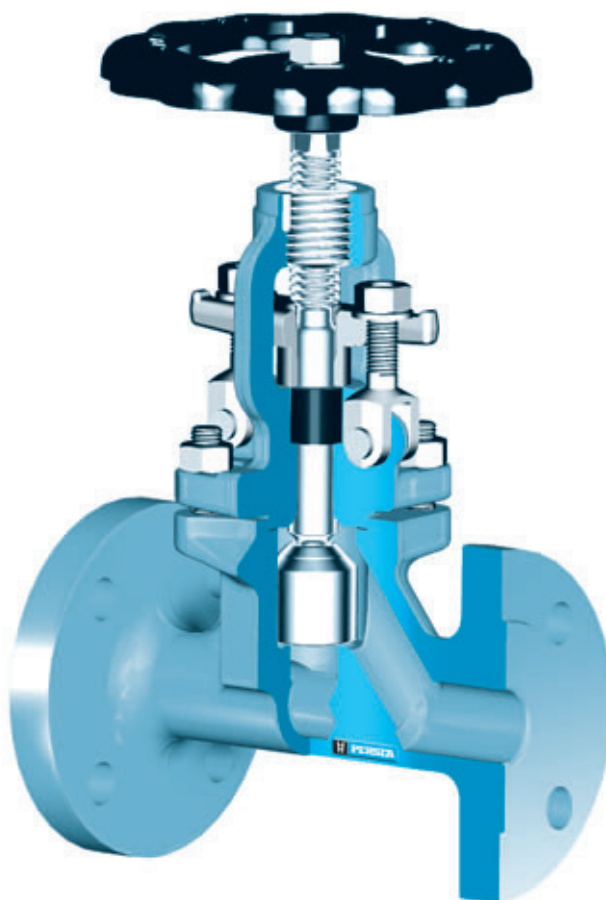
T 93 587 22 22

F 93 588 85 95

E grm@vigrm.com

W www.vigrm.com

▪ Válvulas de globo ▪ 200 AE/BE ▪ PN 10-160 ▪ DN 10-50



Aplicación

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

Material	PN	-200	-60	-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.0460	10-40			40	40	40	37	35	32	28	24	21	10						
	63			63	63	63	58	50	45	40	36	32	24						
	100			100	100	100	90	80	70	60	56	50	38						
	160			160	160	160	145	130	112	96	90	80	60						
1.5415 ⁵⁾	10-40			40	40	40	40	40	40	35	31	30	28	18	14	11	9		
	63			63	63	63	63	63	63	56	50	47	45	29	22	16	14		
	100			100	100	100	100	100	100	87	78	74	70	45	34	27	22		
	160			160	160	160	160	160	160	139	125	118	112	72	55	43	35		
1.7335	10-40			40	40	40	40	40	40	40	38	36	34	29	24	19	15	12	9
	63			63	63	63	63	63	63	63	61	58	56	47	40	32	25	20	15
	100			100	100	100	100	100	100	100	95	91	87	74	62	49	38	31	24
	160			160	160	160	160	160	160	160	153	146	139	118	100	79	62	46	35
1.4571	10-40 ²⁾³⁾⁴⁾	40	40	40	40	40	40	40	40	38	36	34	32	32	32	31	31	31	31
	63 ²⁾³⁾⁴⁾	63	63	63	63	63	59	56	53	50	48	47							
	100 ²⁾³⁾⁴⁾	100	100	100	100	100	92	88	83	79	76	73							
	160 ²⁾³⁾⁴⁾	160	160	160	160	160	150	142	135	127	123	119							
1.0566	10-40 ⁴⁾			40	40	40	40	37	35	32	28								
	63 ⁴⁾			63	63	63	63	58	50	45	40								
	100 ⁴⁾			100	100	100	100	92	80	70	60								
	160 ⁴⁾			160	160	160	160	147	130	112	96								

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

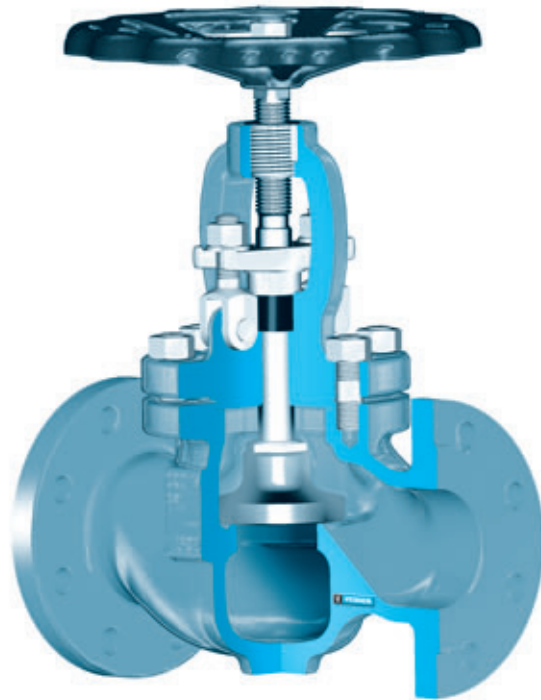
2) Application at more than 400 °C operating temperature only admissible if no intercrystalline corrosion has to be expected.

3) At operating temperature 400 °C the material of the screws is 1.4986.

4) In case of screws A4-70 with > 8 x d screw-length the mechanical strength properties acc. to table 6 of DIN 267 Part 11 have been considered.

5) Butt welding ends

- **Válvulas de globo** ▪ Shut-off check valve ▪ 200 AE/BE ▪ PN 10-160 ▪ DN 65-200
- **Válvulas Retención** ▪ De piston ▪ 240 MT ▪ PN 10-160 ▪ DN 65-200



Aplicación

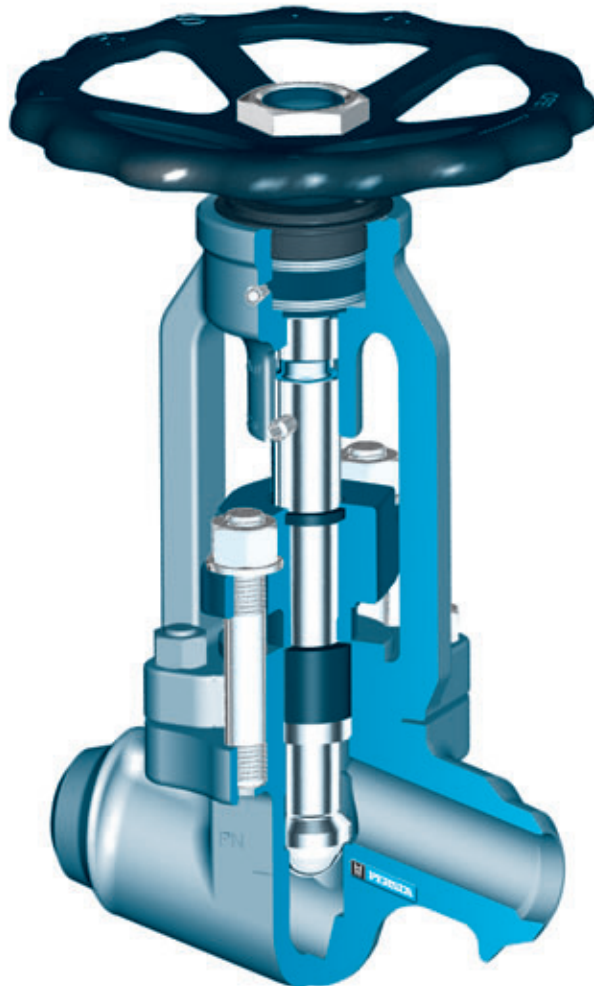
Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																					
		-200	-50	-10	20	100	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550	
1.0619	10-16			16	16	16	16	15	14	13	11	10	8										
	25			25	25	25	25	23	22	20	17	16	13										
	40			40	40	40	40	37	35	32	28	24	21										
	63			63	63	63	63	53	50	45	40	36	32										
	100			100	100	100	100	83	80	70	60	56	50										
	160 ³⁾			160	160	160	160	135	130	112	96	90	80										
1.5419	10			10	10	9	9	9	8	7	7	7	6	6	6	6	3	3	2	2			
	25			25	25	23	23	22	20	19	17	16	16	16	15	15	9	7	6	4			
	40			40	40	36	36	35	31	29	27	26	25	24	24	23	14	11	9	7			
	63			63	63	59	59	58	51	48	45	42	41	40	39	38	22	18	14	12			
	100			100	100	92	92	90	80	74	69	65	63	62	61	59	35	28	22	18			
	160 ³⁾			160	160	148	148	143	128	119	111	104	101	100	98	94	55	44	35	29			
1.7221	10-16 ²⁾			16	16	16	16	15,1	15	14	13	11											
	25 ²⁾			25	25	25	25	23,6	23	22	20	17											
	40 ²⁾			40	40	40	40	37,7	37	35	32	28											
	63 ²⁾			63	63	63	63	55	54	53	50	45	40										
	100 ²⁾			100	100	100	100	87	84	83	80	70	60										
	160 ²⁾			160	160	160	140	136	135	130	112	96											
1.7357	10-16			16	16	16	16	15	14	13	11	10	8										
	25			25	25	25	25	25	25	25	25	24	23	22	21	20	18	15	12	9			
	40			40	40	40	40	40	40	40	40	38	36	35	34	33	29	24	19	15			
	63			63	63	63	63	63	63	63	63	61	58	57	56	51	47	40	32	25			
	100 ⁴⁾			100	100	100	100	100	100	100	100	95	91	89	87	80	74	62	49	38			
	1.4308	10-16	16	16	16	16	13	12,6	12	11	8	8											
25		25	25	25	25	21	19,8	18	17	13	12												
40		40	40	40	40	34	32,4	30	24	21	20												
1.4581	10-16			16	16	15	14,6	14	13	13	12	12	11	10	8	7,5	7	7	7	7	7	6,5	
	25			25	25	24	23,2	22	21	20	19	18	17	16	13	12,5	12	11	11	11	11	11	
	40			40	40	38	36,8	35	33	32	30	28	26	24	21	20	19	19	19	19	18	18	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.
 2) At temperature > 50 °C only applicable for short-time service.
 3) PN 160 is only valid for DN 65-100.
 4) Only for globe valves DN 65-80; for lift check valves DN 65-125.

Permissible differential pressure (pressure inlet below the disc) acc. to EN 13709.

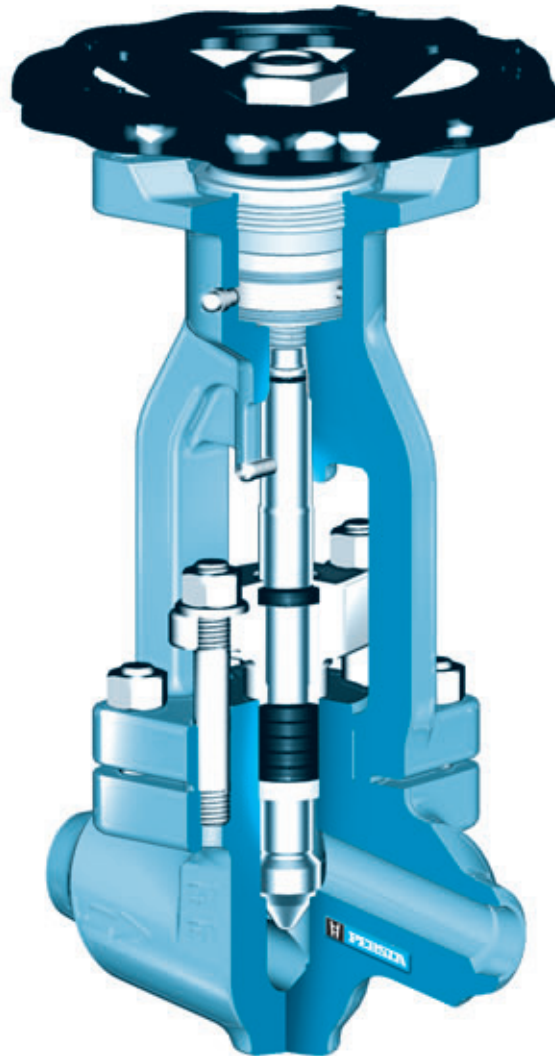
▪ **Válvulas de globo** ▪ **Alta presión HD 91** ▪ **200 JM** ▪ **PN 320** ▪ **DN 10- 65/50**



		Admissible operating pressure [bar] at design temperature [°C] ¹⁾																															
Material	PN	-10	20	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580 ²⁾	590 ²⁾	600 ²⁾	
1.5415	160	192	192	192	192	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41								
	250	300	300	300	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64								
	320	320	320	320	320	320	320	320	320	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81								
1.7335	160	192	192	192	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29					
	250	300	300	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46					
	320	320	320	320	320	320	320	320	320	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59						
1.7383 ²⁾	160	192	192	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32			
	250	300	300	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49			
	320	320	320	320	320	320	320	320	320	320	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63					

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.
 2) For temperatures > 570 °C, stem in 1.4923 and high-temperature-packing.

▪ Válvulas de globo ▪ Alta Presión HD 2000 ▪ 200 LM ▪ PN 500 ▪ DN 10- 65



Aplicación

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

Material	PN	-10	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580 ²⁾	590 ²⁾	600 ²⁾	610 ²⁾	620 ²⁾	630 ²⁾	640 ²⁾	650 ²⁾					
1.0460	500	550	550	550	550	550	550	518	463	389	315	300	285	270	255	240	213	177	146																						
1.5415	500	550	550	550	550	550	550	550	550	537	518	514	510	507	503	500	496	493	489	426	333	253	200	160																	
1.7335	500	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	500	426	338	275	222	173	142	116													
1.7383 ²⁾	500	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	500	437	381	333	289	252	214	189	163	140	124										
1.4903 ²⁾	500	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	
1.4901 ²⁾	500	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550

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

2) For temperatures > 570 °C, stem in 1.4980 and high-temperature-packing.

▪ Válvulas de globo ▪ Alta presión HD 92 ▪ 200 BM ▪ PN 630 (320) ▪ DN 10-65/50



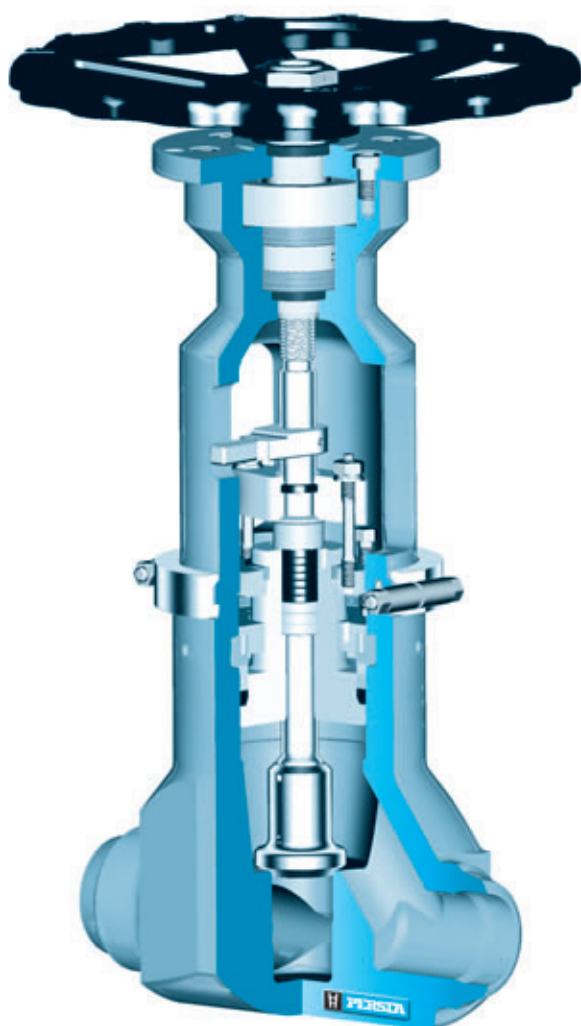
Aplicación

Admissible operating pressure [bar] at design temperature [°C] ¹⁾³⁾

Material	PN	-10	20	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550	560	570	580 ⁵⁾	590 ⁵⁾	600 ⁵⁾	
1.5415	400²⁾	400	400	400	400	400	400	348	312	296	286	278	272	178	135	107	85								
	630²⁾	630	630	630	630	630	630	544	527	493	483	476	465	306	232	183	146								
1.7335	400	400	400	400	400	400	400	380	364	356	348	330	295	250	198	155	116	87	71	58					
	630	630	630	630	630	630	630	612	575	561	544	533	468	391	310	253	204	159	130	106					
1.7383⁵⁾	400	400	400	400	400	400	400	380	364	356	348	330	295	250	198	174	151	130	112	96	82	71	62		
	630	630	630	630	630	630	630	630	630	612	595	575	490	426	369	320	276	235	202	174	149	129	113		
1.4903⁵⁾	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	146	133	120	108	95	83	73		
	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	228	207	188	169	149	130	114		
	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	292	266	241	217	191	166	146		
	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	365	332	302	271	239	208	182		
	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	575	524	476	428	376	328	300		
1.4571	160⁴⁾	160	160	160	160	160	150	145	141	139	137	132	128	100	79	70	61	52							
	250⁴⁾	250	250	250	250	250	250	235	227	220	217	215	206	184	154	124	108	95	81						
	320⁴⁾	320	320	320	320	320	320	301	290	287	278	275	264	237	200	158	139	121	104						

- 1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.
- 2) At operating temperature > 450 °C the material of nuts for Pos. 192 is 1.7709 respectively 1.4923.
- 3) In case of calculation for valves with butt weld ends acc. to DIN 3239 part 1 for nominal pressure class PN 630 the connection d3 with the wall thickness has been considered as minimum dimension without corrosion surcharge.
- 4) In case of mat. 1.4571 the application at more then 400 °C is admissible if no intercrystalline corrosion has to be expected.
- 5) For temperatures > 570 °C, high-temperature-packing.

▪ **Válvulas de globo** ▪ Alta presión DVA ▪ 200 AZ/BZ ▪ PD 25 ▪ DN 80-250



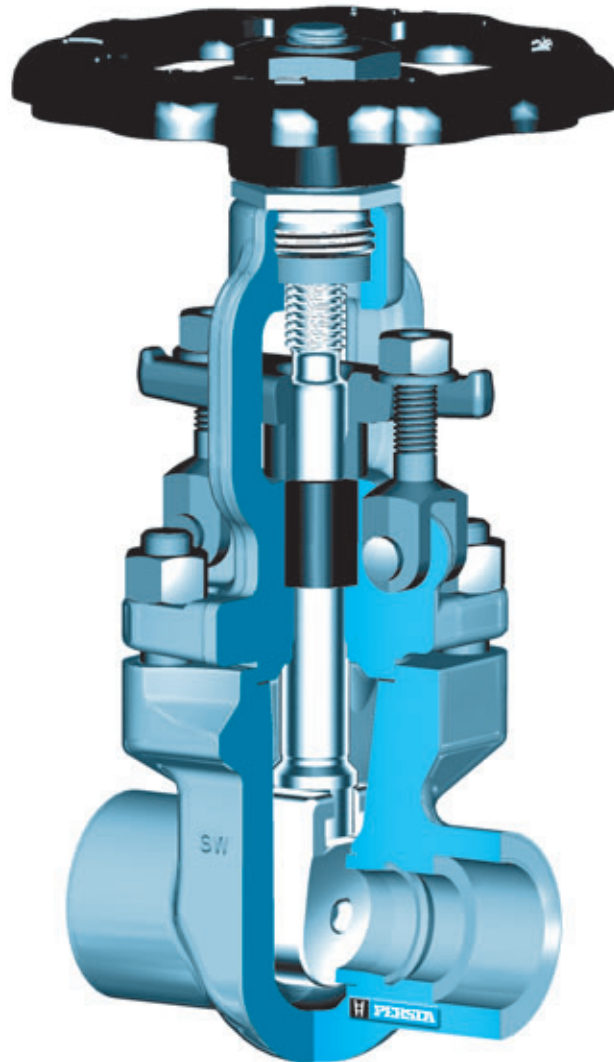
Aplicación

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

Material	PD	120	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	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58													
1.5415	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64								
1.7335	25	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46				
1.7383	25	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49	
1.6368	25	410	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102											
1.4903	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	

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

▪ **Válvula Compuerta** ▪ 808 GJ ▪ PN 10-100 ▪ DN 10-40



Aplicación

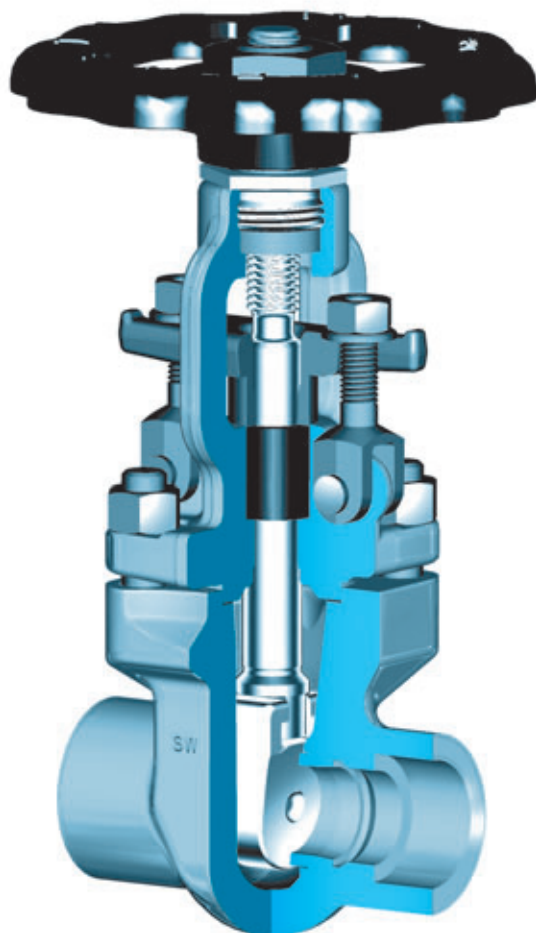
Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-200	-60	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	
1.0460	10-40			40	40	40	37	35	32	28	24	21	13	8	7							
	63			63	63	63	56	50	45	40	36	32	21	13	12							
	100			100	100	100	90	80	70	60	56	50	34	21	19							
1.7335	10-40			40	40	40	40	40	40	40	38	36	34	32	31	29	24	19	15	12	9	
	63			63	63	63	63	63	63	63	61	58	56	52	51	47	40	32	25	20	15	
	100			100	100	100	100	100	100	100	95	91	87	81	79	74	62	49	38	30	23	
1.0566 ²⁾	10-40			40	40	40	37	35	34	28												
	63			63	63	63	58	50	45	40												
	100			100	100	100	92	80	70	60												
1.4571	10-40	40	40	40	40	40	38	35	33	31	30	29										
	63	63	63	63	63	63	57	50	47	44	42	40										
	100	100	100	100	100	100	90	80	75	70	65	60										

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

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

▪ **Válvula Compuerta** ▪ 800/808 GJ ▪ Class 800 (PN 10-40) ▪ 1/2" - 2" (DN 15-50)



Material	PN	-10	20	100	150	200	250	300	350	400	450	475	480
1.0460	10-40	40	40	40	37	35	32	28	24	21	13	8	7

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

		Admissible operating pressure [bar] at design temperature [°C] ¹⁾														
Material		-29	38	93,5	149	204,5	260	315,5	343,5	371	399	426,5	454,5	482	510	538
ASTM A 105	Class 800	136,2	136,2	124,1	120,7	116,6	110,0	100,7	98,6	97,9	92,7	75,9	49,3	31,7	19,0	9,7

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

▪ **Válvula Compuerta** ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150

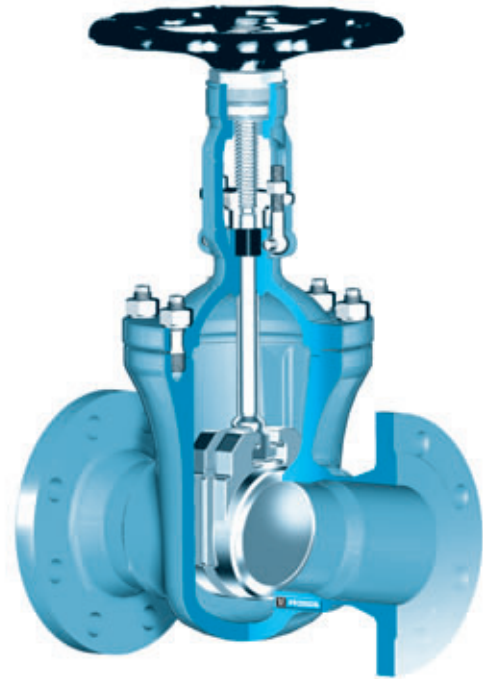
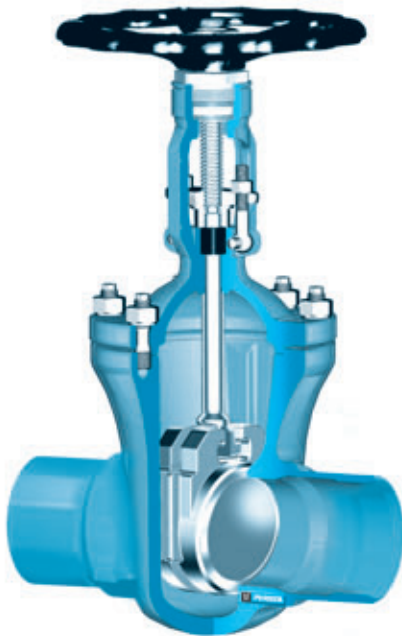


Tabla de presión DIN 2401

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											
1.0460	10 ²⁾	10,0	10,0	10,0	9,6	8,8	8,1	6,9	6,3	5,0											
	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												
1.0566 ^{3,4)}	10 ²⁾	10,0	10,0	10,0	10,0	9,0	8,0	7,0													
	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												
1.5415	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	8,8	8,0	7,6	7,2	6,8									
	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									
1.7335	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					
	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					
1.7383	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			
	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			

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.

▪ **Válvula Compuerta** ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150

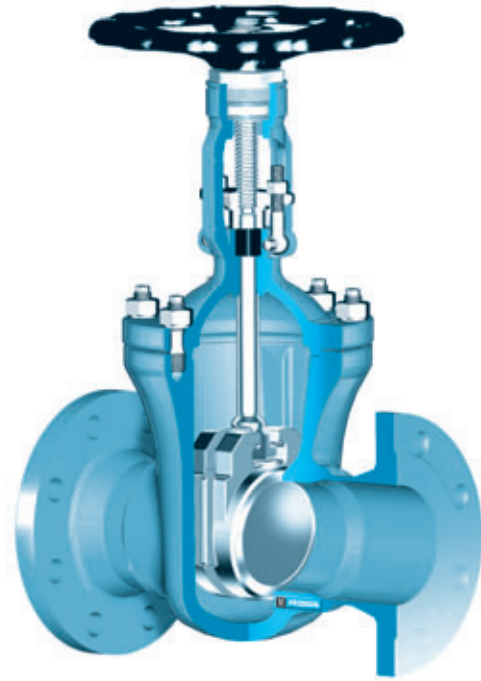


Tabla de Presión DIN EN 1092-1

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	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1																	
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	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1																	
	63	630	630	630	58,5	55,5	52,5	48,0	43,5	40,5	37,5	20,7																	
100	1000	1000	1000	92,8	88,0	83,3	76,1	69,0	64,2	59,5	32,8																		
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	47,1	43,5	40,3	37,2	34,1	31,0	27,9	22,2	17,7	14,1									
100	1000	1000	1000	1000	1000	1000	97,6	85,7	80,9	74,7	69,0	64,0	59,1	54,2	49,2	44,2	35,2	28,0	22,3										
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	41,1	34,8	28,2	23,4	18,3	14,7	12,0	9,9						
100	1000	1000	1000	1000	1000	1000	1000	95,2	90,0	84,2	80,2	76,1	72,0	68,0	65,2	55,2	44,7	37,1	29,0	23,3	19,0	15,7							
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	97,6	92,8	88,0	83,3	78,5	73,8	69,0	64,2	56,1	49,0	42,8	37,1	32,3	27,6	24,2	20,9	18,0	16,1				

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

▪ **Válvula Compuerta** ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150

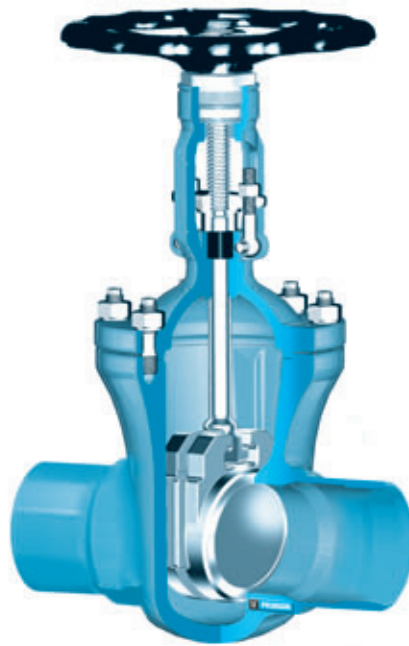


Tabla de presión

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

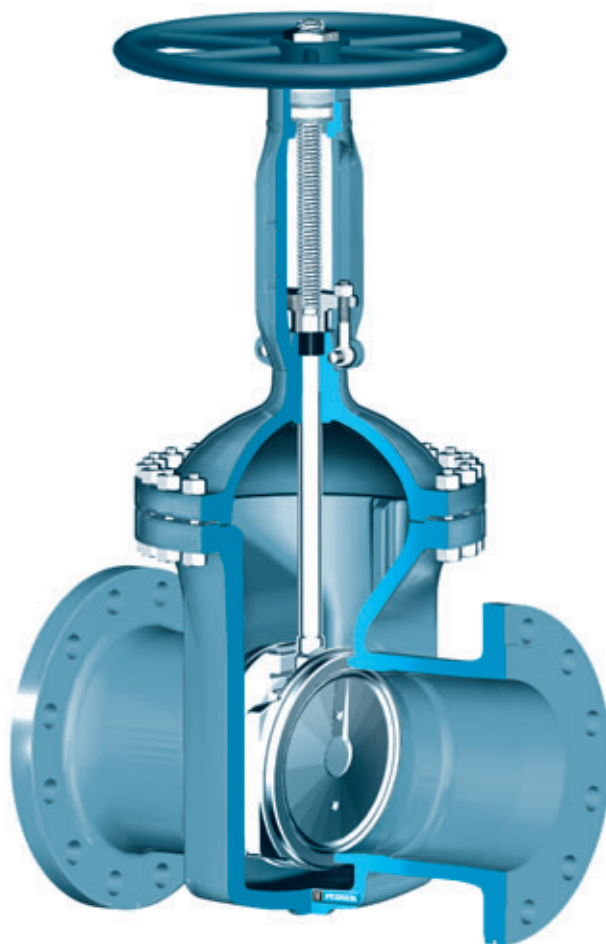
Material	PD	-60	-10	20	100	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600			
1.0460	1,0	100	100	100	100	97	85	75	64	59	49	46	44	42	39	35	29	24																
	1,6	160	160	160	160	151	132	118	102	95	76	73	69	65	61	54	45	37																
	2,5	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⁾	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	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	890	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	40	30						
	2,5	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	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	750	700	660	650	640	640	630	620	610	610	600	570	510	440	390	340	290	260	220	190	170	140	130	110	90	80		
	10,0	1200	1200	1200	1200	1200	1180	1090	1030	1020	1010	990	980	970	960	960	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.

▪ **Válvula Compuerta** ▪ 700 HJ/JJ (GA) ▪ PN 10-40 ▪ DN 200-250



Aplicación

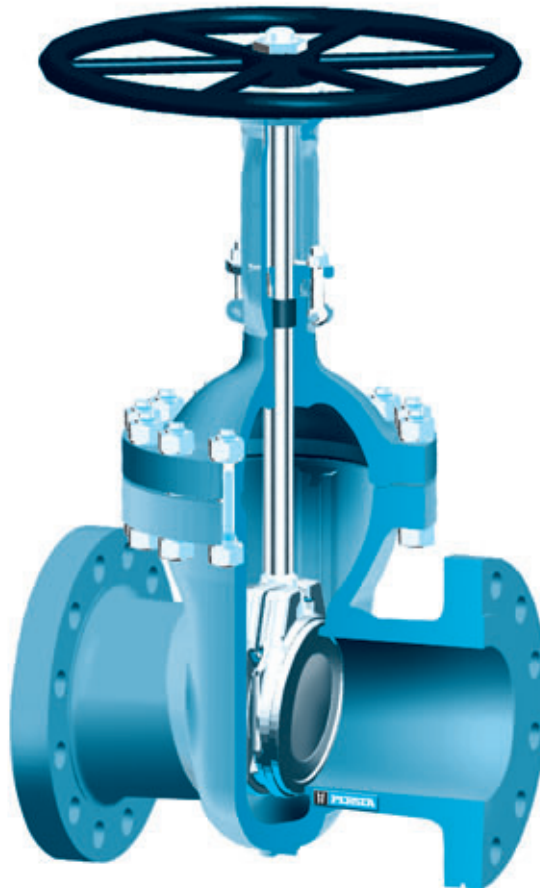
Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	450
1.0460	10-16	16	16	16	15	14	13	11	10	8	6	
	25	25	25	25	24	22	20	17	16	13	10	
	40	40	40	40	38	35	32	28	24	21	10	
1.0566 ²⁾	10-16	16	16	16	15	14	13	11				
	25	25	25	25	24	22	20	17				
	40	40	40	40	38	35	32	28				

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

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

▪ **Válvula Compuerta** ▪ 700 HJ/JJ ▪ PN 63-100 ▪ DN 200-300



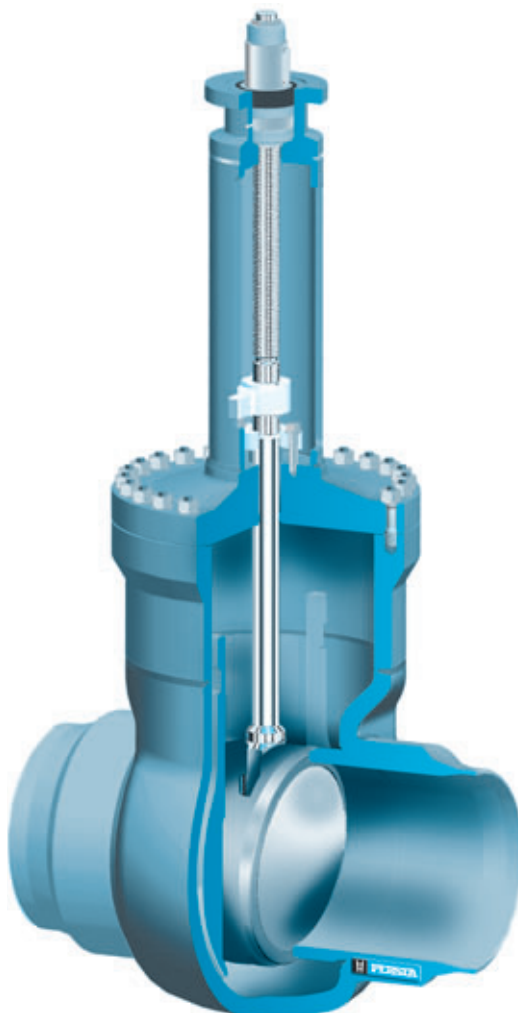
Aplicación

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

Material	PN	-60	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	560	570	580	590	600	
1.0460	63	63	63	63	58	50	45	40	36	32	21	14,0	12													
	100	100	100	100	91	80	70	60	56	50	34	21,8	19													
1.5415	63	63	63	63	63	63	63	56	50	47	45	37,0	35	29	22	16	14									
	100	100	100	100	100	100	100	87	78	74	70	57,0	54	45	34	27	22									
1.7335	63	63	63	63	63	63	63	63	61	58	56	53,0	51	47	40	32	25	20	16	13	10					
	100	100	100	100	100	100	100	100	95	91	87	82,0	80	74	62	49	38	31	24	19	16					
1.7383	63	63	63	63	63	63	63	63	62	62	60	55,0	53	47	40	35	28	25	22	18	15	12	11	9		
	100	100	100	100	100	100	100	100	98	96	94	85,0	82	74	62	53	43	39	33	27	23	19	17	15		

1) Betriebstemperatur = Berechnungstemperatur minus Temperaturzuschlag nach Regelwerk.

▪ **Válvula Compuerta** ▪ 400 JJ ▪ PN 63-100 ▪ DN 350-700



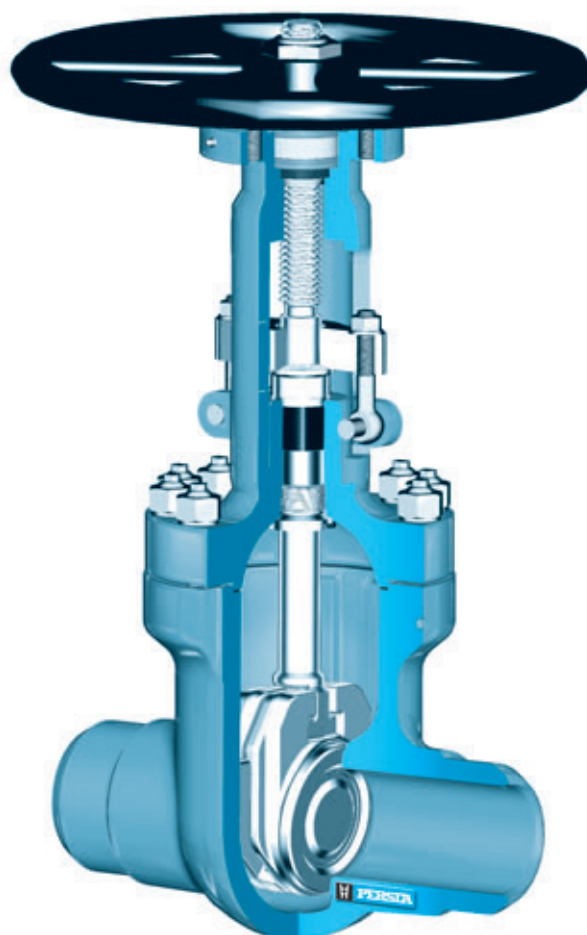
Aplicación

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

Material	PN	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	560	570	580	590	600	
1.0425	63	63	63	63	58	50	45	40	36	32	21	14,0	12												
	100	100	100	100	91	80	70	60	56	50	34	21,8	19												
1.5415	63	63	63	63	63	63	63	56	50	47	45	37,0	35	29	22	16	14								
	100	100	100	100	100	100	87	78	74	74	70	57,0	54	45	34	27	22								
1.7335	63	63	63	63	63	63	63	63	61	58	56	53,0	51	47	40	32	25	20	16	13	10				
	100	100	100	100	100	100	100	95	91	87	82,0	80	74	62	49	38	31	24	19	16					
1.7383	63	63	63	63	63	63	63	62	62	60	55,0	53	47	40	35	28	25	22	18	15	12	11	9		
	100	100	100	100	100	100	100	98	96	94	85,0	82	74	62	53	43	39	33	27	23	19	17	15		

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

▪ **Válvula Compuerta** ▪ 700 JJ ▪ P N 1 6 0 / P D 1 8 ▪ DN 50-300/250



Aplicación

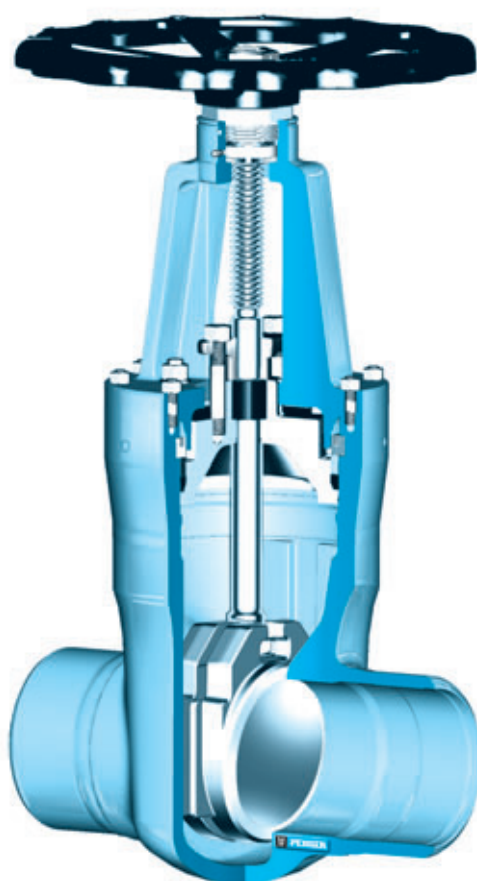
FL-Version Material	PN	Admissible operating pressure [bar] at design temperature [°C] ¹⁾															
		-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.5415	160	160	160	160	160	160	160	139	125	118	112	72	55	43	35		
1.7335	160	160	160	160	160	160	160	153	146	139	118	100	79	62	46	35	
1.7383	160	160	160	160	160	160	160	153	146	139	118	100	79	70	61	52	

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

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																											
		20	50	100	120	150	200	250	300	350	400	420	430	440	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600
1.5415	18	258	246	229	219	204	185	170	146	141	136	134	133	132	130	129	128	112	88	67	53	42							
1.7335	18	258	249	234	228	219	205	194	180	170	161	156	155	153	150	149	148	147	133	112	89	72	58	46	37	30			
1.7383	18	258	250	239	233	224	210	205	194	180	170	166	164	162	159	156	155	153	131	115	100	88	76	66	56	50	43	37	33

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

▪ **Válvula Compuerta** ▪ Alta presión DSK 10 ▪ 700 JT ▪ PD 10 ▪ DN 50-150



Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																											
		120	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	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23													
1.5415	10	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25								
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18				
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20	

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

▪ **Válvula Compuerta** ▪ Alta presión DSK 10 ▪ 700 JT ▪ PD 10 ▪ DN 200-350/300

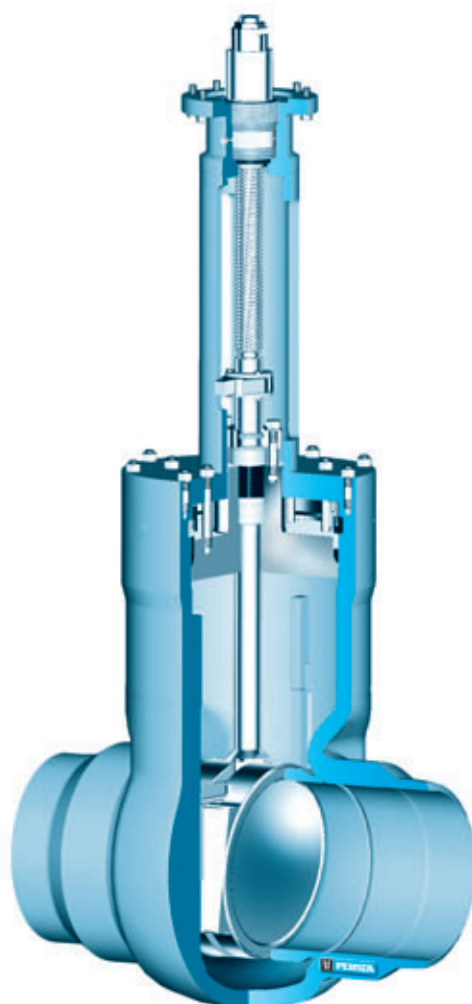


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																											
		120	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	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23													
1.5415	10	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25								
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18				
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20	

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

▪ **Válvula Compuerta** ▪ Alta presión DSK 10 ▪ 700 JT ▪ PD 10 ▪ DN 350-700

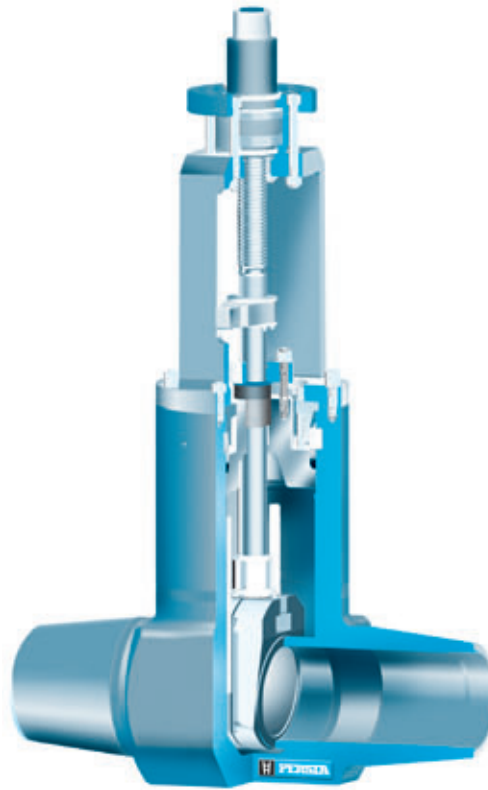


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																
		120	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	610	620	630	640	650	
1.0425	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23																		
1.5415	10	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25													
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18									
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20						
1.4903	10	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	134	122	119	110	101	93	84	76	68	61	54	48	42	37	32	27	24	21

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

▪ **Válvula Compuerta** ▪ **DSK 16-63** ▪ **700 JT** ▪ **PD 16-63** ▪ **DN 50-600**

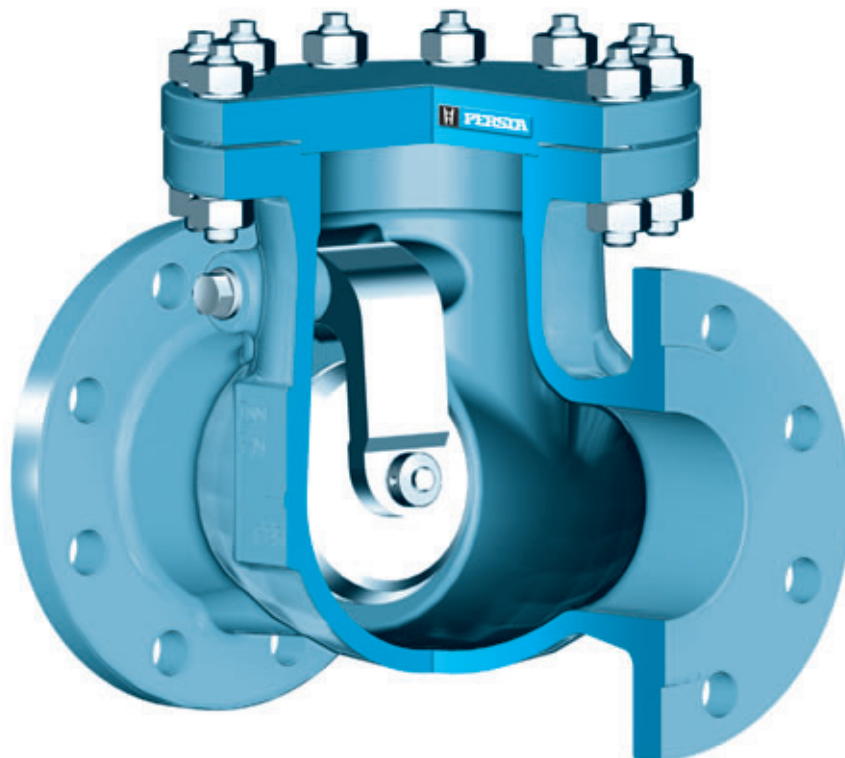


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																
		120	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	610	620	630	640	650	
1.0460	16	160	160	151	132	118	99	80	76	73	69	65	61	54	45	37																		
	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																		
	32	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																		
	40	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																		
1.5415	16	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41													
	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64													
	32	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81													
	40	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102													
1.7335	16	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29									
	25	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46									
	32	385	385	385	377	349	330	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59									
	40	481	481	481	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74									
1.7383	16	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32						
	25	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49						
	32	384	384	384	384	377	349	330	326	322	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63						
	40	480	480	480	480	471	436	413	408	403	398	384	389	384	379	375	358	318	278	243	212	184	160	137	120	104	90	79						
1.6368	16	263	263	263	263	263	263	263	263	263	257	231	198	165	131	98	65																	
	25	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																	
	32	525	525	525	525	525	525	525	525	525	515	482	396	330	262	196	130																	
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680
1.4903	16	272	272	272	272	272	272	272	272	272	272	272	272	272	268	245	239	221	203	186	169	153	137	123	108	96	85	74	64	55	48	41		
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	65		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	536	490	477	441	405	371	338	305	273	245	217	192	170	147	128	109	96	83	
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680
1.4901	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	271	254	237	221	205	190	176	161	147	133	119	106	94	81	70	61	52		
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	542	508	474	442	410	380	352	323	295	267	239	212	188	163	141	122	105	
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request

▪ **Válvula de Clapeta** ▪ 640 AA ▪ PN 10-40 ▪ DN 50-250



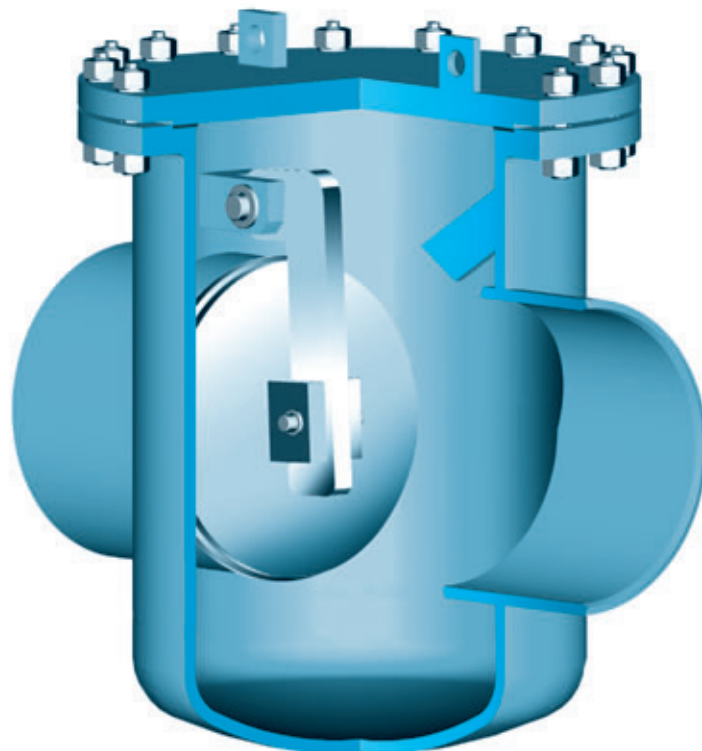
Aplicación

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

Material	PN	-10	20	120	150	200	250	300	350	400
1.0619	10-16	16	16	16	15	14	13	11	10	8
	25	25	25	25	23	22	20	17	16	13
	40	40	40	40	37	35	32	28	24	21

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

▪ **Válvula de clapeta** ▪ 640 AA ▪ PN 10-40 ▪ DN 300-800



Aplicación

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

Material	PN	-10	20	100	120	200	250	300	350	400
P265GH	10	10	10	10	10	9	8	7	6	5
	16	16	16	16	16	14	13	11	10	8
	25	25	25	25	25	22	20	17	16	13
	40	40	40	40	40	35	32	28	24	21

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

▪ **Válvula Retención de clapeta** ▪ **640 AA** ▪ **PN 63-160 (PD 18)** ▪ **DN 50-300/250**



Aplicación

FL- Version Material	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																
	PN	-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.5415	63	63	63	63	63	63	63	53	50	47	45	29	22	16	14		
1.7335	63	63	63	63	63	63	63	63	61	58	56	47	40	32	25	20	15
1.7383	63	63	63	63	63	63	63	63	61	58	56	47	40	32	28	24	20

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

FL- Version Material	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																
	PN	-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.5415	100	100	100	100	100	100	100	87	78	74	70	45	34	27	22		
1.7335	100	100	100	100	100	100	100	95	91	87	74	62	49	38	31	24	
1.7383	100	100	100	100	100	100	100	95	91	87	74	62	49	43	37	31	

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

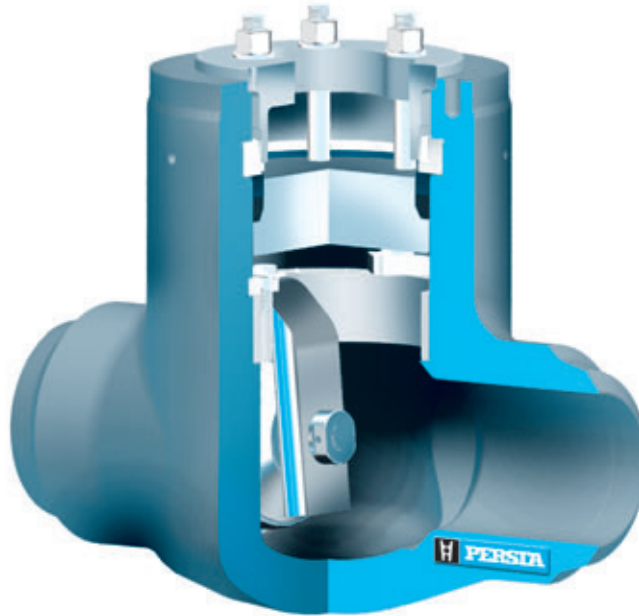
FL- Version Material	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																
	PN	-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.5415	160	160	160	160	160	160	139	125	118	112	72	55	43	35			
1.7335	160	160	160	160	160	160	160	153	146	139	118	100	79	62	46	35	
1.7383	160	160	160	160	160	160	160	153	146	139	118	100	79	70	61	52	

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

BW- Version Material	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																										
	PD	120	150	200	250	300	350	400	420	430	440	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	
1.5415	18	219	204	185	170	146	141	136	134	133	132	130	129	128	112	88	67	53	42								
1.7335	18	228	219	205	194	180	170	161	156	155	153	150	149	148	147	133	112	89	72	58	46	37	30				
1.7383	18	233	224	210	205	194	180	170	166	164	262	159	156	155	153	131	115	100	88	76	66	56	50	43	37	33	

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

Válvula Retención ■ DRI 26 ■ 640 AB ■ PD 25 / PD 40 ■ DN 65-300



Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																						
		20	50	100	120	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	610	620	630	640	650				
1.0460	25	250	250	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																					
1.5415	25	300	300	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64																
1.7335	25	300	300	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46												
1.7383	25	300	300	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49										
1.6368	25	410	410	410	410	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																			
1.4903	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	64				
1.4901	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82				

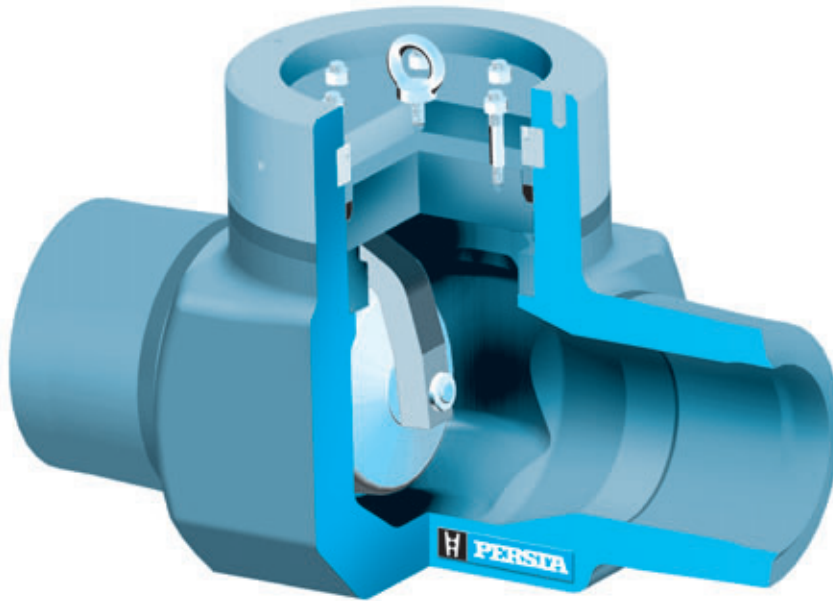
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																							
		20	50	100	120	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	610	620	630	640	650					
1.0460	40	400	400	400	400	400	377	330	295	248	200	190	181	172	162	153	135	113	93																						
1.5415	40	480	480	480	480	480	447	412	353	341	330	327	325	322	320	318	315	313	311	271	212	161	127	101																	
1.7335	40	481	481	481	481	481	471	436	412	388	384	379	374	370	365	363	360	358	355	322	271	215	175	141	110	90	73														
1.7383	40	480	480	480	480	480	480	471	436	412	407	403	398	393	388	384	379	374	358	318	278	242	212	183	160	136	120	103	89	79											
1.6368	40	657	657	657	657	657	657	657	657	657	657	657	657	657	643	577	495	412	328	245	163																				
1.4903	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	612	596	551	506	464	421	381	341	306	271	240	212	183	160	136	120	103					
1.4901	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131					

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

▪ **Válvula Retención** ▪ **DRI 16-63** ▪ **640 AB** ▪ **PD 16-63** ▪ **DN 50-500**

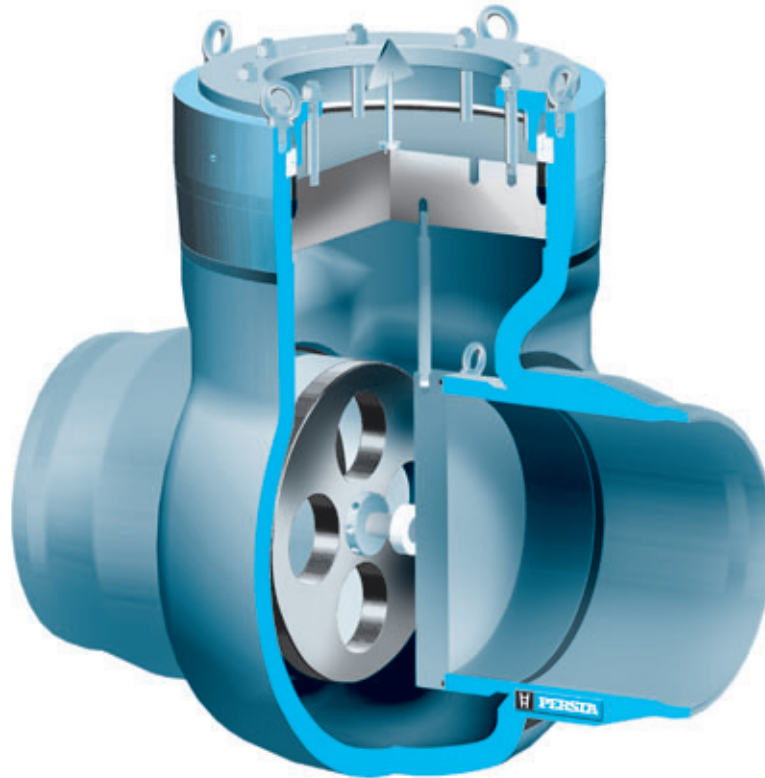


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																
		120	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	610	620	630	640	650	
1.0460	16	160	160	151	132	118	99	80	76	73	69	65	61	54	45	37																		
	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																		
	32	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																		
	40	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																		
1.5415	16	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41													
	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64													
	32	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81													
	40	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102													
1.7335	16	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29									
	25	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46									
	32	385	385	385	377	349	330	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59									
	40	481	481	481	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74									
1.7383	16	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32						
	25	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49						
	32	384	384	384	384	377	349	330	326	322	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63						
	40	480	480	480	480	471	436	413	408	403	398	384	389	384	379	375	358	318	278	243	212	184	160	137	120	104	90	79						
1.6368	16	263	263	263	263	263	263	263	263	263	263	257	231	198	165	131	98	65																
	25	410	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																
	32	525	525	525	525	525	525	525	525	525	525	515	482	396	330	262	196	130																
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	
1.4903	16	272	272	272	272	272	272	272	272	272	272	272	272	272	268	245	239	221	203	186	169	153	137	123	108	96	85	74	64	55	48	41		
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	65		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	536	490	477	441	405	371	338	305	273	245	217	192	170	147	128	109	96	83	
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	613	596	552	507	464	422	382	342	306	271	240	212	184	160	137	120	104	
1.4901	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	271	254	237	221	205	190	176	161	147	133	119	106	94	81	70	61	52		
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	542	508	474	442	410	380	352	323	295	267	239	212	188	163	141	122	105		
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131		

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request

▪ Válvula de alta presión tubería Ciega DPV 10 ▪ 990 VW ▪ PD 10 ▪ DN 350-700

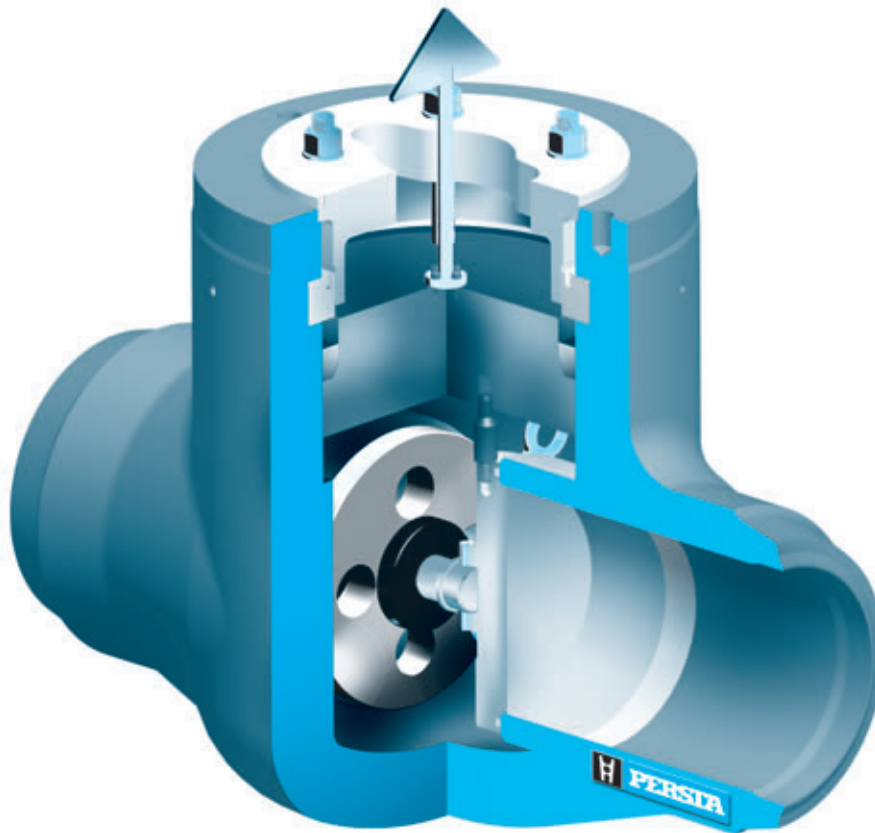


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																															
		120	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	610	620	630	640	650
1.0425	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23																	
1.5415	10	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25												
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18								
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20					
1.4903	10	136	136	136	136	136	136	136	136	136	136	136	136	136	136	134	122	119	110	101	93	84	76	68	61	54	48	42	37	32	27	24	21

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

■ Válvula de alta presión tubería Ciega DPV 16-63 ■ 990 VW ■ PD 16-63 ■ DN 65-600

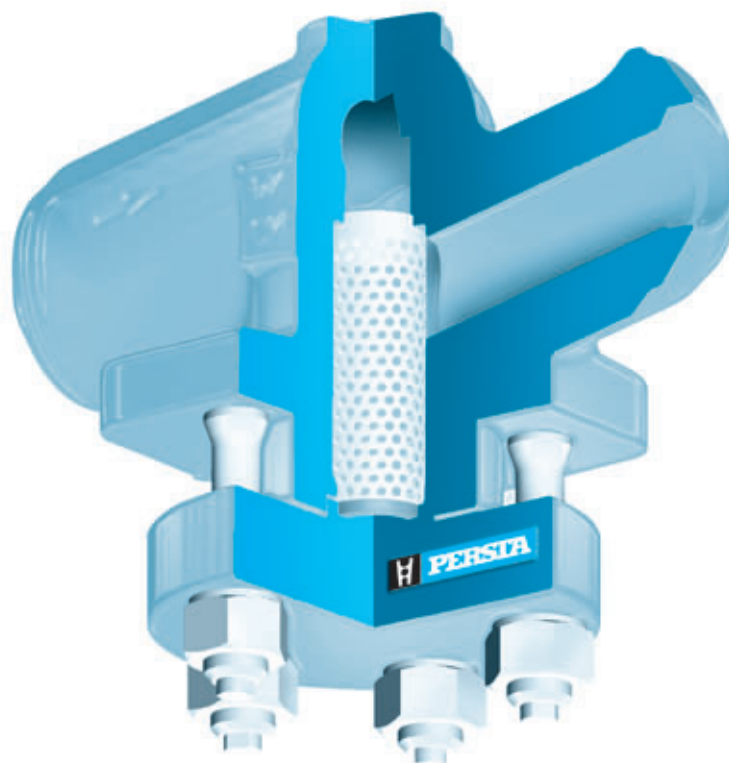


Aplicación

BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																
		120	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	610	620	630	640	650	
1.0460	16	160	160	151	132	118	99	80	76	73	69	65	61	54	45	37																		
	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																		
	32	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																		
	40	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																		
1.5415	16	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41													
	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64													
	32	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81													
	40	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102													
1.7335	16	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29									
	25	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46									
	32	385	385	385	377	349	330	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59									
	40	481	481	481	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74									
1.7383	16	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32						
	25	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49						
	32	384	384	384	384	377	349	330	326	322	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63						
	40	480	480	480	480	471	436	413	408	403	398	384	389	384	379	375	358	318	278	243	212	184	160	137	120	104	90	79						
1.6368	16	263	263	263	263	263	263	263	263	263	263	257	231	198	165	131	98	65																
	25	410	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																
	32	525	525	525	525	525	525	525	525	525	515	482	396	330	262	196	130																	
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680
1.4903	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	268	245	239	221	203	186	169	153	137	123	108	96	85	74	64	55	48	41	
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	65	
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	536	490	477	441	405	371	338	305	273	245	217	192	170	147	128	109	96	83	
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1.4901	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	271	254	237	221	205	190	176	161	147	133	119	106	94	81	70	61	52		
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	542	508	474	442	410	380	352	323	295	267	239	212	188	163	141	122	105		
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131		

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request

▪ Filtro alta presión ▪ 990 ST ▪ PN 500 ▪ DN 10-65/50



Aplicación

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

Material	PN	-10	50	100	120	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	610	620	630	640	650				
1.0460	500	550,0	550,0	550,0	550,0	550,0	550,0	518,0	463,0	389,0	315,0	300,0	285,0	270,0	255,0	240,0	213,0	177,0	146,0																					
1.5415	500	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	537,4	518,8	514,7	510,9	507,3	503,8	500,3	496,7	493,1	489,3	426,9	333,5	253,5	200,1	160,1																
1.7335	500	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	500,0	426,9	338,0	275,7	222,4	173,4	142,0	116,0													
1.7383	500	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	500,3	437,3	381,7	333,5	289,1	252,0	214,9	189,0	163,1	140,8	124,5									
1.4903	500	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	500,0	465,0	430,0	380,0	338,0	298,0	261,0	231,0	198,0	172,0			
1.4901	500	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	550,0	

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