

Table for PE



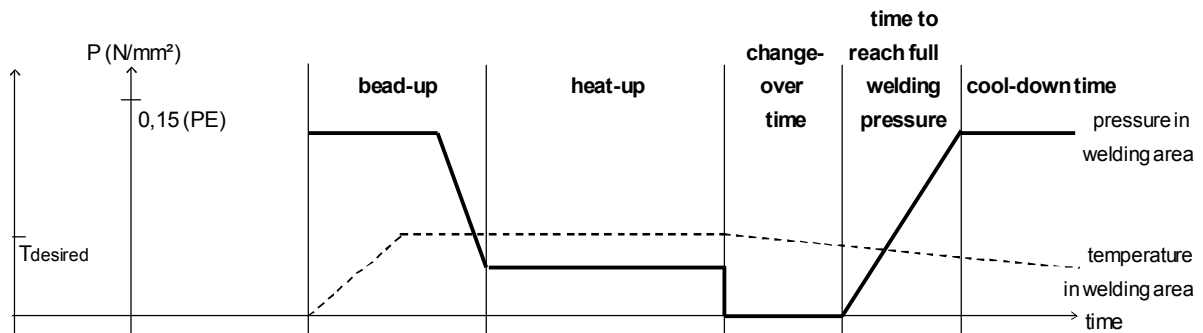
Foundation: 2207, 2208 DIN 16932 German association for welding

Use for: **Miniplast 2 / 110** OD 20 - 110
Maxiplast / 501 / 900 / 955 OD 50 - 160
Instaweld 160 OD 50 - 160
2000 / 3000 Kombi OD 50 - 250
2500 DO 160 / 250 / 315 OD 50 - 315
ASM 160 / ASM 315 OD 50 - 315

PE 80 The value for heating element temperature is between 200° C - 220° C.
 The **smaller** the pipe wall the **higher** the temperature.

PE 100 The standard value for heating element temperature is 220° C.
 Increase the change-over time and the welding pressure time at PE 100 as fast as possible !

Additional to the given bead-up force and to the welding force the moving force of the support must be added !
 1 kp = 10 N



pipe diameter OD [mm]	pipe wall (s) [mm]	SDR	bead-up force [kp] [daN]	circular bead min. [mm]	heat-up time [s]	max. change-over time [s]	time to reach welding pressure [s]	welding force [kp] [daN]	cool-down time [min]
20	1,9	11	2	0,5	20	4	4	2	2
	2,3	9	2	0,5	23	4	4	2	2
	2,8	7,4	3	0,5	28	4	4	3	3
25	2,3	11	3	0,5	23	4	4	3	2
	2,8	9	3	0,5	28	4	4	3	3
	3,5	6	4	0,5	35	5	5	4	4
32	1,8	17	3	0,5	20	4	4	3	2
	1,9	17	3	0,5	20	4	4	3	2
	2,4	13,6	4	0,5	24	4	4	4	3
	2,9	11	4	0,5	29	4	4	4	3
	3,6	9	5	0,5	36	5	5	5	5
40	1,8	26	4	0,5	20	4	4	4	2
	1,9	21	4	0,5	20	4	4	4	2
	2,3	17,6	5	0,5	23	4	4	5	2
	2,4	17	5	0,5	24	4	4	5	3
	3,7	11	7	0,5	37	5	5	7	5
	4,5	9	8	1	45	5	5	8	6
	5,5	7,4	9	1,0	55	5	5	9	8

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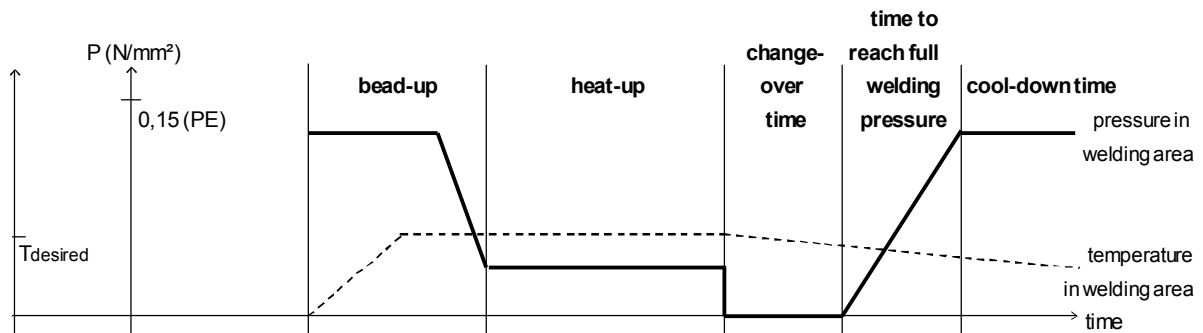
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50	1,8	33	5	0,5	20	4	4	5	2
	2,0	26	5	0,5	20	4	4	5	2
	2,4	21	6	0,5	24	4	4	6	3
	2,9	17,6	7	0,5	29	4	4	7	3
	3,0	13,6	7	0,5	30	4	4	7	4
	3,7	13,6	9	0,5	37	5	5	9	5
	4,6	11	10	1,0	46	5	5	10	6
	5,6	9	12	1,0	56	5	5	12	8
63	1,8	41	6	0,5	20	4	4	6	2
	2,0	33	6	0,5	20	4	4	6	2
	2,5	26	8	0,5	25	4	4	8	3
	3,0	21	9	0,5	30	4	4	9	4
	3,6	17,6	11	0,5	36	5	5	11	5
	3,8	17	11	0,5	38	5	5	11	5
	4,7	13,6	13	1,0	47	5	5	13	6
	5,8	11	16	1,0	58	6	6	16	8
	7,1	9	19	1,5	71	6	6	19	10
	8,6	7,4	23	1,5	86	7	7	23	12

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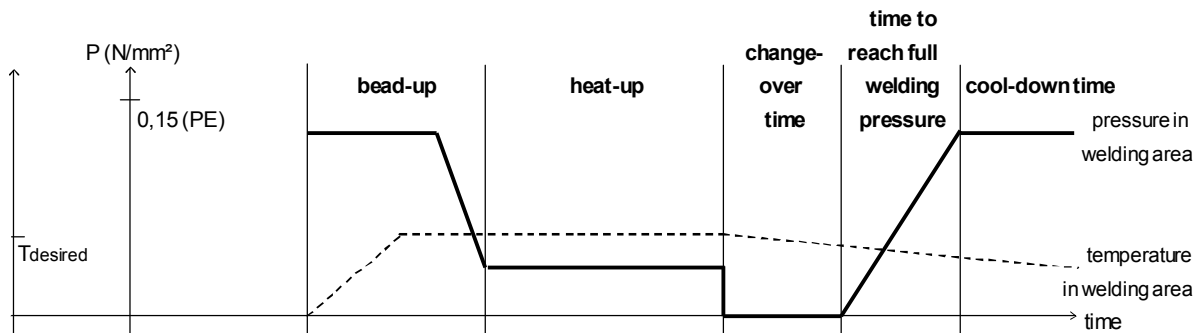
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pipe diameter OD [mm]	pipe wall (s) [mm]	SDR	bead-up force [kp] [daN]	circular bead min. [mm]	heat-up time [s]	max. change-over time [s]	time to reach welding pressure [s]	welding force [kp] [daN]	cool-down time [min]
75	1,9	41	7	0,5	20	4	4	7	2
	2,3	33	8	0,5	23	4	4	8	2
	2,9	26	10	0,5	29	4	4	10	3
	3,6	21	13	0,5	36	5	5	13	5
	4,3	17,6	15	0,5	43	5	5	15	6
	4,5	13,6	15	1,0	45	5	5	15	6
	5,6	13,6	19	1,0	56	5	5	19	8
	6,8	11	22	1,0	68	6	6	22	10
	8,4	9	27	1,5	84	7	7	27	12
10,3	7,4	32	1,5	103	7	7	32	14	
90	2,2	41	10	0,5	22	4	4	10	2
	2,8	33	12	0,5	28	4	4	12	3
	3,5	26	15	0,5	35	5	5	15	4
	4,3	21	18	0,5	43	5	5	18	6
	5,1	17,6	21	1,0	51	5	5	21	7
	5,4	17	22	1,0	54	5	5	22	7
	6,7	13,6	27	1,0	67	6	6	27	10
	8,2	11	32	1,5	82	6	6	32	11
	10,1	9	39	1,5	101	7	7	39	14
12,3	7,4	46	2,0	123	8	8	46	16	

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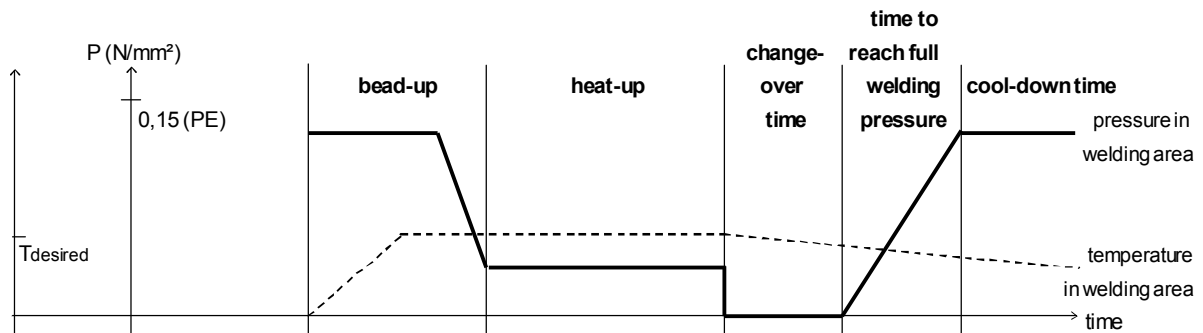
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110	2,7	41	14	0,5	27	4	4	14	3
	3,4	33	18	0,5	34	5	5	18	4
	4,2	26	21	0,5	42	5	5	21	6
	5,3	21	27	1,0	53	5	5	27	7
	6,3	17	31	1,0	63	6	6	31	9
	6,6	17	33	1,0	66	6	6	33	9
	8,1	13,6	39	1,5	81	6	6	39	11
	10,0	11	48	1,5	100	7	7	48	14
	12,3	9	57	2,0	123	8	8	57	16
15,1	7,4	68	2,0	151	9	9	68	20	
125	3,1	41	18	0,5	31	4	4	18	4
	3,9	33	23	0,5	39	5	5	23	5
	4,8	26	28	1,0	48	5	5	28	6
	6,0	21	34	1,0	60	6	6	34	8
	7,1	17,6	40	1,5	71	6	6	40	10
	7,4	17	42	1,5	74	6	6	42	10
	9,2	13,6	51	1,5	92	7	7	51	13
	11,4	11	62	1,5	114	8	8	62	15
	14,0	9	74	2,0	140	9	9	74	18
17,1	7,4	87	2,0	171	9	10	87	22	

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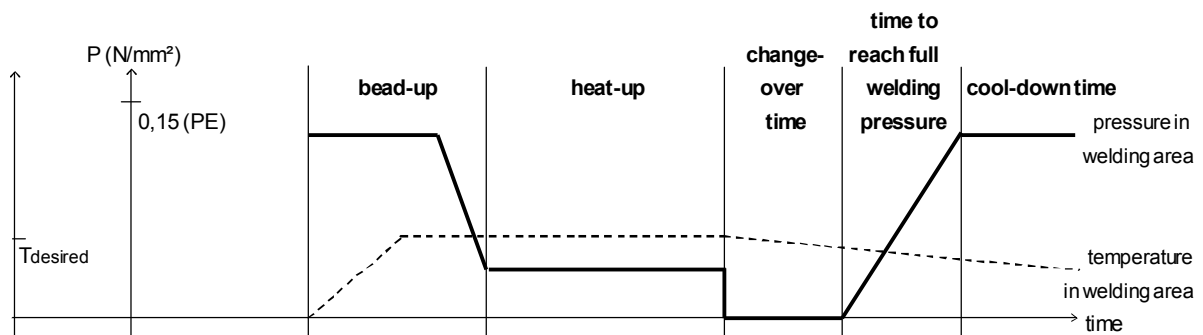
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140	3,5	41	23	0,5	35	5	5	23	4
	4,3	33	28	0,5	43	5	5	28	6
	5,4	26	35	1,0	54	5	5	35	7
	6,7	21	43	1,0	67	6	6	43	10
	8,3	17	52	1,5	80	6	6	52	11
	10,3	13,6	63	1,5	83	7	7	63	12
	12,7	11	77	1,5	103	7	7	77	14
	15,7	9	92	2,0	127	8	8	92	17
	19,2	7,4	110	2,0	157	9	10	110	20
23,3	6	129	2,5	192	10	11	129	24	
160	4,0	41	30	0,5	40	5	5	30	5
	4,9	33	36	1,0	49	5	5	36	7
	6,2	26	45	1,0	62	6	6	45	9
	7,7	21	56	1,5	77	6	6	56	11
	9,1	17,6	65	1,5	91	7	7	65	13
	9,5	17	68	1,5	95	7	7	68	13
	11,8	13,6	83	1,5	118	8	8	83	16
	14,6	11	101	2,0	146	9	9	101	19
	17,9	9	120	2,0	179	10	11	120	23
21,9	7,4	143	2,5	219	11	12	143	27	

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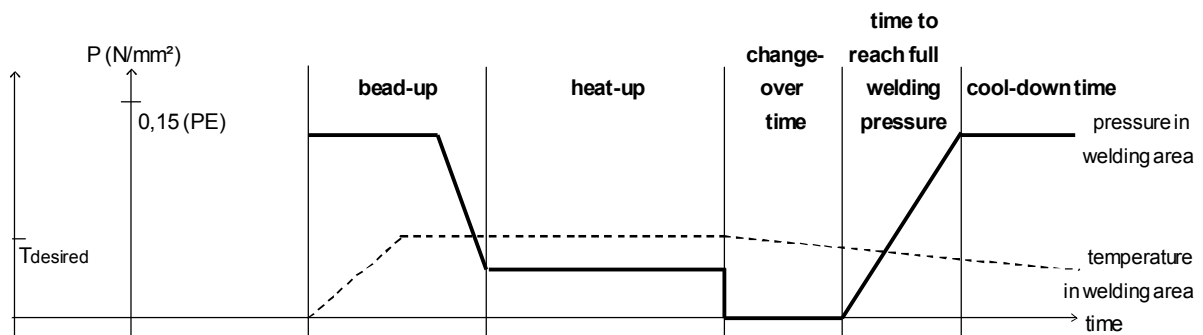
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180	4,4	41	37	0,5	44	5	5	37	6
	5,5	33	46	1,0	55	5	5	46	8
	6,9	26	57	1,0	69	6	6	57	10
	10,2	17,6	82	1,5	86	7	7	82	12
	10,7	17	86	1,5	102	7	7	86	14
	13,3	13,6	105	1,5	107	7	7	105	14
	16,4	11	127	2,0	133	8	9	127	17
	20,1	9	152	2,0	164	9	10	152	21
	20,1	9	152	2,5	201	10	11	152	25
24,6	7,4	181	2,5	246	12	13	181	30	
200	4,9	41	46	1,0	49	5	5	46	7
	6,2	33	57	1,0	62	6	6	57	9
	7,7	26	70	1,5	77	6	6	70	11
	9,6	21	87	1,5	96	7	7	87	13
	11,4	17,6	102	1,5	114	8	8	102	15
	11,9	17	106	1,5	119	8	8	106	16
	14,7	13,6	129	2,0	149	9	9	129	19
	18,2	11	156	2,0	182	10	11	156	23
	22,4	9	188	2,5	224	11	12	188	28
	27,4	7,4	223	3,0	274	13	15	223	34

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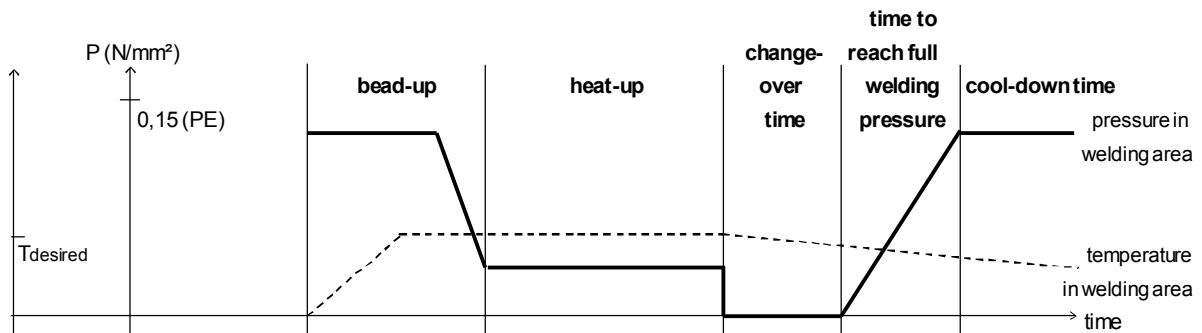
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225	5,5	41	57	1,0	55	5	5	57	8
	6,9	33	71	1,0	69	6	6	71	10
	8,6	26	88	1,5	86	7	7	88	12
	10,8	21	110	1,5	108	8	8	110	15
	12,8	17,6	128	2,0	128	8	8	128	17
	13,4	17	134	2,0	134	8	9	134	18
	16,6	13,6	164	2,0	166	9	10	164	21
	20,5	11	198	2,5	205	10	12	198	26
	25,2	9	238	2,5	252	12	14	238	31
250	30,8	7,4	282	3,0	308	14	16	282	38
	6,2	41	72	1,0	62	6	6	72	9
	7,7	33	88	1,5	77	6	6	88	11
	9,6	26	109	1,5	96	7	7	109	13
	11,9	21	134	1,5	119	8	8	134	19
	14,2	17,6	158	2,0	142	9	9	158	16
	14,8	17	165	2,0	148	9	9	165	19
	18,4	13,6	201	2,0	184	10	11	201	23
	22,7	11	244	2,5	227	11	13	244	28
27,9	9	293	3,0	279	13	15	293	34	
34,2	7,4	348	3,0	342	15	18	348	42	

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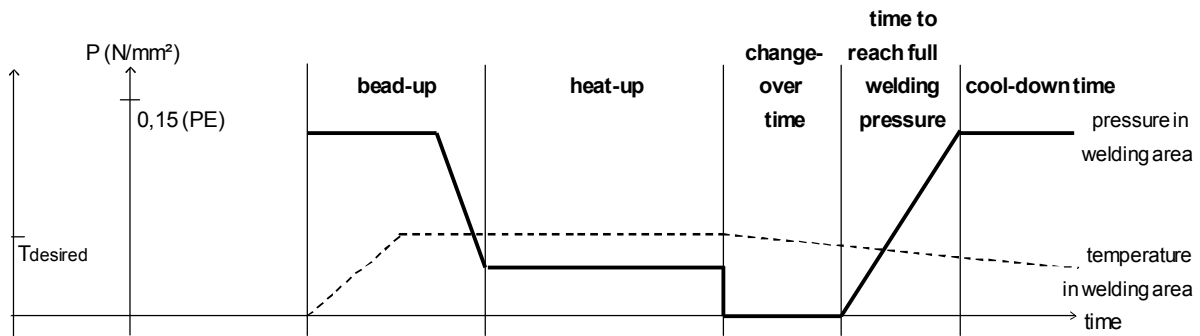
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280	6,9	41	89	1,0	69	6	6	89	10
	8,6	33	110	1,5	86	7	7	110	12
	10,7	26	136	1,5	107	7	7	136	14
	13,4	21	169	2,0	134	8	9	169	18
	15,9	17,6	198	2,0	159	9	10	198	20
	16,6	17	207	2,0	166	9	10	207	21
	20,6	13,6	252	2,5	206	10	12	252	26
	25,4	11	305	2,5	254	12	14	305	31
	31,3	9	367	3,0	313	14	16	367	38
315	38,3	7,4	437	3,5	383	16	20	437	47
	7,7	41	112	1,5	77	6	6	112	11
	9,7	33	140	1,5	97	7	7	140	13
	12,1	26	173	2,0	121	8	8	173	16
	15,0	21	213	2,0	150	9	9	213	19
	17,9	17,6	251	2,0	179	10	11	251	23
	18,7	17	262	2,0	187	10	11	262	24
	23,2	13,6	320	2,5	232	11	13	320	29
	28,6	11	386	3,0	286	13	15	386	35
35,2	9	465	3,0	352	15	18	465	43	
43,1	7,4	553	3,5	431	18	22	553	52	

① Remaining under the cool-down time for up to 50% is allowed under the following conditions:

- prefabrication under workshop conditions
- low additional pressure at unclamping
- no additional pressure during further cooling down
- load onto the workpieces only after being completely cooled down