

## PERMISSIBLE WORKING PRESSURE

For heating systems or closed systems considering the seasonal periods of operation – non potable water application

Heating period	Temperature	Years of service	aquatherm blue pipe SDR 11 MF, OT & S		aquatherm blue pipe SDR 17,6 MF		aquatherm green pipe SDR 7,4 MF		aquatherm green pipe SDR 9 MF RP	
			Permissible working pressure in bar and (psi)							
			bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)
constant operating temperature 70 °C / 158 °F incl. 30 days per year at	75 °C 167 °F	5	9,38	(136)	5,38	(78)	14,27	(207)	12,90	(187)
		10	9,08	(132)	5,21	(76)	13,79	(200)	12,60	(183)
		25	7,82	(113)	4,48	(65)	11,74	(170)	12,20	(177)
		45	6,77	(98)	3,89	(56)	10,18	(148)	12,00	(174)
	80 °C 176 °F	5	8,88	(129)	5,09	(74)	13,50	(196)	11,70	(170)
		10	8,46	(123)	4,86	(70)	12,80	(186)	11,40	(165)
		25	7,38	(107)	4,24	(61)	11,14	(162)	11,10	(161)
		42,5	6,49	(94)	3,72	(54)	9,79	(142)	10,90	(158)
	85 °C 185 °F	5	8,17	(118)	4,69	(68)	12,42	(180)	10,70	(155)
		10	7,82	(113)	4,49	(65)	11,87	(172)	10,40	(151)
		25	6,70	(97)	3,85	(56)	10,14	(147)	10,10	(146)
		37,5	6,07	(88)	3,49	(51)	9,18	(133)	10,00	(145)
	90 °C 194 °F	5	7,50	(109)	4,30	(62)	11,39	(165)	9,80	(142)
		10	7,19	(104)	4,13	(60)	10,94	(159)	9,50	(138)
		25	5,85	(85)	3,36	(49)	8,86	(129)	9,20	(133)
		35	5,39	(78)	3,09	(45)	8,16	(118)	9,10	(132)
constant operating temperature 70 °C / 158 °F incl. 60 days per year at	75 °C 167 °F	5	9,26	(134)	5,31	(77)	14,11	(205)	12,30	(178)
		10	8,90	(129)	5,11	(74)	13,57	(197)	12,10	(175)
		25	7,62	(111)	4,37	(63)	11,58	(168)	11,70	(170)
		45	6,60	(96)	3,79	(55)	10,05	(146)	11,50	(167)
	80 °C 176 °F	5	8,61	(125)	4,94	(72)	13,12	(190)	11,40	(165)
		10	8,24	(120)	4,73	(69)	12,54	(182)	11,20	(162)
		25	6,93	(101)	3,98	(58)	10,56	(153)	10,80	(157)
		40	6,18	(90)	3,55	(51)	9,41	(136)	10,70	(155)
	85 °C 185 °F	5	7,91	(115)	4,54	(66)	12,03	(174)	10,40	(151)
		10	7,56	(110)	4,34	(63)	11,52	(167)	10,20	(148)
		25	6,05	(88)	3,47	(50)	9,22	(134)	9,90	(144)
		35	5,57	(81)	3,20	(46)	8,48	(123)	9,80	(142)
	90 °C 194 °F	5	7,25	(105)	4,16	(60)	11,04	(160)	9,50	(138)
		10	6,40	(93)	3,67	(53)	9,76	(142)	9,30	(135)
		25	5,12	(74)	2,94	(43)	7,81	(113)	9,10	(132)
		30	4,90	(71)	2,81	(41)	7,46	(108)	9,00	(131)
constant operating temperature 70 °C / 158 °F incl. 90 days per year at	75 °C 167 °F	5	9,17	(133)	5,26	(76)	14,02	(203)	12,20	(177)
		10	8,79	(127)	5,04	(73)	13,38	(194)	12,00	(174)
		25	7,45	(108)	4,27	(62)	11,33	(164)	11,60	(168)
		45	6,45	(94)	3,70	(54)	9,82	(142)	11,40	(165)
	80 °C 176 °F	5	8,46	(123)	4,85	(70)	12,90	(187)	11,30	(164)
		10	8,11	(118)	4,65	(67)	12,35	(179)	11,00	(160)
		25	6,60	(96)	3,78	(55)	10,05	(146)	10,70	(155)
		37,5	5,98	(87)	3,43	(50)	9,09	(132)	10,60	(154)
	85 °C 185 °F	5	7,76	(113)	4,45	(65)	11,81	(171)	10,30	(149)
		10	7,03	(102)	4,04	(59)	10,72	(155)	10,10	(146)
		25	5,63	(82)	3,23	(47)	8,58	(124)	9,80	(142)
		32,5	5,28	(77)	3,03	(44)	8,03	(116)	9,70	(141)
	90 °C 194 °F	5	6,96	(101)	3,99	(58)	10,59	(154)	9,40	(136)
		10	5,88	(85)	3,37	(49)	8,96	(130)	9,20	(133)
		25	4,70	(68)	2,70	(39)	7,17	(104)	8,90	(129)

\* SDR = Standard Dimension Ratio (diameter / wall thickness ratio)

SDR = 2 x S + 1 ≈ d / s (S = Pipe series index from ISO 4065)