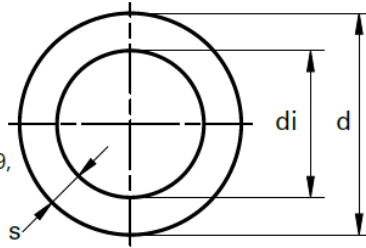
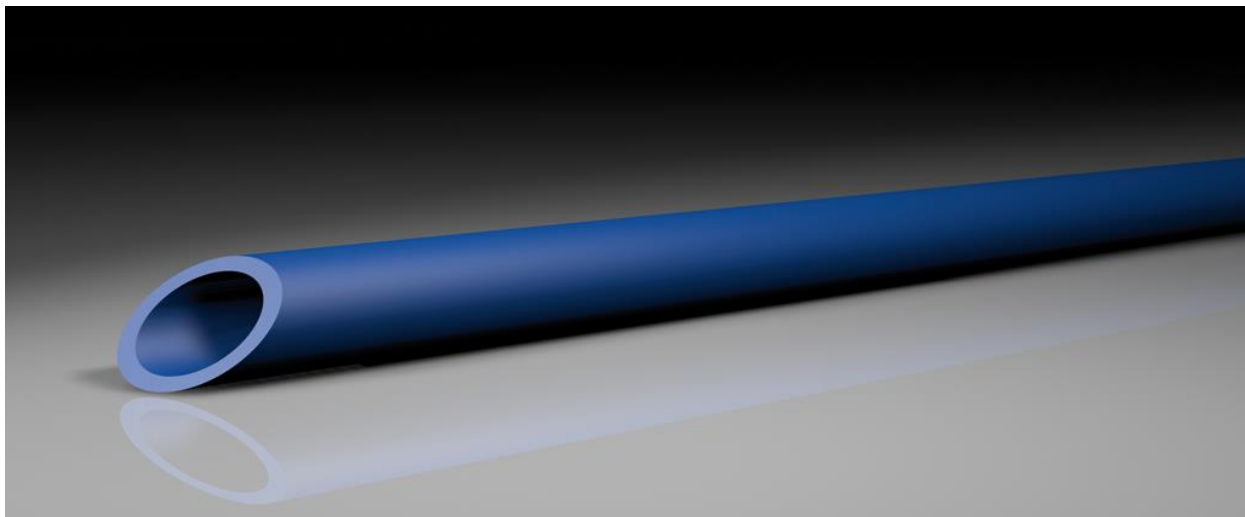


## aquatherm blue pipe - SDR 11 S

Structure of pipe: S (single)  
 Material: fusiolen PP-R  
 Pipe series: SDR 11/S 5  
 Standards: DIN 8077/78, DIN EN ISO 15874, ASTM F 2389, CSA B 137.11, NSF 14, ISO 21003  
 Colour: blue  
 Form supplied: 4 m straight lengths, also\* in coils  
 Packing Unit: PU in meter  
 Application:



SDR	Art.-No.	Dimension d [mm]	Wall thickness s [mm]	Internal diameter di [mm]	Water content [l/m]	Weight [kg]	DN	PU [m]	Price € m/pc
11	2010208	20	1,9	16,2	0,206	0,110	15	100	
	2010210	25	2,3	20,4	0,327	0,167	20	100	
	2010212	32	2,9	26,2	0,539	0,265	25	40	
	2010308*	20	1,9	16,2	0,206	0,107	15	100	
	2010310*	25	2,3	20,4	0,327	0,164	20	100	
	2010312*	32	2,9	26,2	0,539	0,257	25	40	



## aquatherm green pipe, blue pipe & lilac pipe SDR 11 S

Table to determine support intervals in conjunction with temperature and outside diameter.

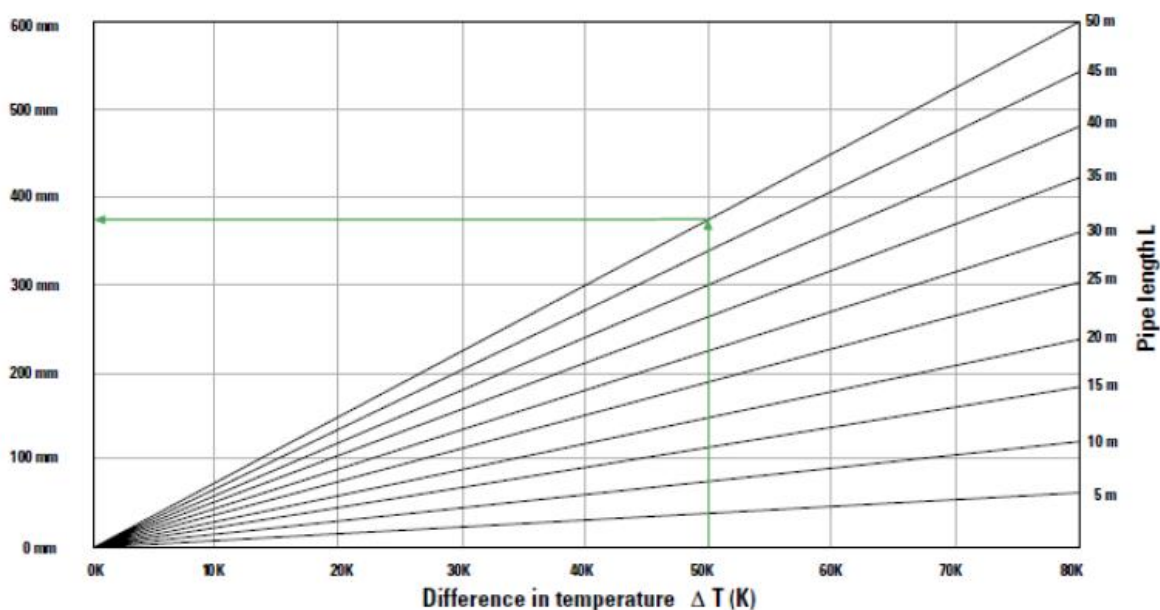
Pipe diameter d (mm)														
20	25	32	40	50	63	75	90	110	125	160	200	250	315	355
Support intervals in cm														
60	75	90	100	120	140	150	160	180	200	260	265	275	280	285

## aqualtherm green pipe & aqualtherm blue pipe (without faser)

The linear expansion, described on the preceding pages, can be taken from the following tables and graphs.

**Linear expansion**  $\Delta L$  in [mm]: green- and blue pipe -  $\alpha = 0,150 \text{ mm/mK}$

Pipe length	Difference in temperature $\Delta T = T_{\text{operating temperature}} - T_{\text{installation temperature}}$							
	10 K	20 K	30 K	40 K	50 K	60 K	70 K	80 K
	Linear expansion $\Delta L$ (mm)							
5 m	8	15	23	30	38	45	53	60
10 m	15	30	45	60	75	90	105	120
15 m	23	45	68	90	113	135	158	180
20 m	30	60	90	120	150	180	210	240
25 m	38	75	113	150	188	225	263	300
30 m	45	90	135	180	225	270	315	360
35 m	53	105	158	210	263	315	368	420
40 m	60	120	180	240	300	360	420	480
45 m	68	135	203	270	338	405	473	540
50 m	75	150	225	300	375	450	525	600



Temperature	Service life	fuiotherm®- pipe SDR 11 aquatherm lilac®- pipe SDR 11 *		fuiotherm®- pipe SDR 7.4 aquatherm lilac®- pipe SDR 11 *		fuiotherm®- pipe SDR 6 fuiotherm®- stabi composite pipe		fuiotherm®- faser composite pipe SDR 7.4			
		Permissible working pressure in bar and (psi)									
		bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)		
20°C 68°F	1	15,0	(218)	23,8	(345)	30,0	(435)	28,6	(415)		
	5	14,1	(205)	22,3	(324)	28,1	(408)	26,8	(389)		
	10	13,7	(199)	21,7	(315)	27,3	(396)	26,1	(379)		
	25	13,3	(193)	21,1	(306)	26,5	(385)	25,3	(367)		
	50	12,9	(187)	20,4	(296)	25,7	(373)	24,5	(356)		
30°C 86°F	1	12,8	(186)	20,2	(293)	25,5	(370)	24,3	(353)		
	5	12,0	(174)	19,0	(276)	23,9	(347)	22,8	(331)		
	10	11,6	(168)	18,3	(266)	23,1	(335)	22,0	(319)		
	25	11,2	(163)	17,7	(257)	22,3	(324)	21,3	(309)		
	50	10,9	(158)	17,3	(251)	21,8	(316)	20,7	(300)		
40°C 104°F	1	10,8	(157)	17,1	(248)	21,5	(312)	20,5	(298)		
	5	10,1	(147)	16,0	(232)	20,2	(293)	19,2	(279)		
	10	9,8	(142)	15,6	(226)	19,6	(284)	18,7	(271)		
	25	9,4	(136)	15,0	(218)	18,8	(273)	18,0	(261)		
	50	9,2	(134)	14,5	(210)	18,3	(266)	17,5	(254)		
50°C 122°F	1	9,2	(134)	14,5	(210)	18,3	(266)	17,5	(254)		
	5	8,5	(123)	13,5	(196)	17,0	(247)	16,2	(235)		
	10	8,2	(119)	13,1	(190)	16,5	(239)	15,7	(228)		
	25	8,0	(116)	12,6	(183)	15,9	(231)	15,2	(221)		
	50	7,7	(112)	12,2	(177)	15,4	(224)	14,7	(213)		
60°C 140°F	1	7,7	(112)	12,2	(177)	15,4	(224)	14,7	(213)		
	5	7,2	(104)	11,4	(165)	14,3	(208)	13,7	(199)		
	10	6,9	(100)	11,0	(160)	13,8	(200)	13,2	(192)		
	25	6,7	(97)	10,5	(152)	13,3	(193)	12,6	(183)		
	50	6,4	(93)	10,1	(147)	12,7	(184)	12,1	(176)		