

Permissible working pressure for general pressure pipe applications in permanent operation __



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

S = single-layer

MF = multi-layer fibre

MF RP = multi-layer fibre – raised pressure resistance

For fittings of butt-welded pipe segments a reduction factor of 0.75 (reduction of the table values by 25 %) is effective.

Years of service	aquatherm blue SDR 17.6 MF RP	aquatherm blue SDR 11 MF RP	aquatherm blue SDR 11 S	aquatherm blue SDR 9 MF RP
at temperature up to 10 °C (50 °F)				
10	13.1 bar	25.3 bar	19.3 bar	27.5 bar
25	12.9 bar	24.7 bar	18.7 bar	27.1 bar
50	12.7 bar	24.1 bar	18.2 bar	26.7 bar
100	12.6 bar	23.5 bar	17.8 bar	26.3 bar
at temperature up to 15 °C (59 °F)				
10	12.3 bar	23.4 bar	17.8 bar	25.7 bar
25	12.1 bar	22.8 bar	17.2 bar	25.2 bar
50	11.9 bar	22.2 bar	16.8 bar	24.9 bar
100	11.7 bar	21.6 bar	16.3 bar	24.5 bar
at temperature up to 20 °C (68 °F)				
10	11.4 bar	21.4 bar	16.4 bar	23.9 bar
25	11.2 bar	21.0 bar	15.9 bar	23.5 bar
50	11.0 bar	20.4 bar	15.4 bar	23.1 bar
100	10.9 bar	19.9 bar	15.0 bar	22.8 bar
at temperature up to 30 °C (86 °F)				
10	9.8 bar	18.3 bar	13.9 bar	20.6 bar
25	9.6 bar	17.8 bar	13.4 bar	20.2 bar
50	9.5 bar	17.3 bar	13.0 bar	19.9 bar
100	9.4 bar	16.8 bar	12.7 bar	19.7 bar
at temperature up to 40 °C (104 °F)				
10	8.4 bar	15.5 bar	11.8 bar	17.7 bar
25	8.3 bar	15.0 bar	11.3 bar	17.3 bar
50	8.1 bar	14.6 bar	11.0 bar	17.1 bar
100	8.0 bar	14.1 bar	10.7 bar	16.8 bar
at temperature up to 50 °C (122 °F)				
10	7.2 bar	13.0 bar	9.9 bar	15.1 bar
25	7.0 bar	12.6 bar	9.5 bar	14.7 bar
50	6.9 bar	12.2 bar	9.2 bar	14.5 bar
100	6.8 bar	11.9 bar	9.0 bar	14.3 bar
at temperature up to 60 °C (140 °F)				
10	6.1 bar	10.9 bar	8.3 bar	12.7 bar
25	5.9 bar	10.6 bar	8.0 bar	12.4 bar
50	5.8 bar	10.3 bar	7.7 bar	12.2 bar
at temperature up to 70 °C (158 °F)				
10	5.1 bar	8.5 bar	7.0 bar	10.7 bar
25	5.0 bar	8.3 bar	6.0 bar	10.4 bar
50	4.9 bar	8.1 bar	5.1 bar	10.2 bar
at temperature up to 75 °C (167 °F)				
10	4.6 bar	7.7 bar	6.0 bar	9.7 bar
25	4.5 bar	7.6 bar	4.8 bar	9.5 bar
50	4.4 bar	7.3 bar	4.0 bar	9.3 bar
at temperature up to 80 °C (176 °F)				
5	4.3 bar	7.2 bar	5.7 bar	9.0 bar
10	4.2 bar	7.0 bar	4.8 bar	8.9 bar
25	4.1 bar	6.8 bar	3.9 bar	8.6 bar
at temperature up to 90 °C (194 °F)				
5	3.5 bar	5.9 bar	3.7 bar	7.4 bar
10	3.4 bar	5.8 bar	3.2 bar	7.3 bar