

# SecuraOne®

## Flow Rates

### SecuraOne® Pressure Loss Comparison SecuraGold™

#### Quality & performance with PN20 pressure rating

SecuraOne PB pipes are made from the same high-performance materials as the SecuraGold range but to the new metric SDR9 dimensions. The new dimensions provide a thicker wall section giving a PN20 pressure rating and better overall long-term performance.

SecuraOne PEX pipes are made from high grade PE100 compounds meaning it has a higher minimum required strength than PE80 based PE-X pipes, the use of PE100 compounds allows SecuraOne PEX pipes to have a PN20 pressure rating and better overall long-term performance.

#### kPa Pressure Loss Comparison S1 16mm PB & PE-Xb to SG 15mm PB

Length	Cold Water 20°C						Hot Water 60°C					
	SecuraOne® 16mm	SecuraGold™ 15mm	SecuraOne® 16mm	SecuraGold™ 15mm	SecuraOne® 16mm	SecuraGold™ 15mm	SecuraOne® 16mm	SecuraGold™ 15mm	SecuraOne® 16mm	SecuraGold™ 15mm	SecuraOne® 16mm	SecuraGold™ 15mm
1m	1.034	0.757	3.478	2.545	7.071	5.174	0.845	0.618	2.841	2.079	5.776	4.227
2m	2.068	1.513	6.955	5.090	14.141	10.349	1.689	1.236	5.682	4.158	11.552	8.454
3m	3.102	2.270	10.433	7.635	21.212	15.523	2.534	1.854	8.523	6.237	17.328	12.680
4m	4.136	3.027	13.911	10.180	28.282	20.697	3.378	2.472	11.364	8.316	23.103	16.907
5m	5.170	3.783	17.389	12.725	35.353	25.872	4.223	3.090	14.204	10.395	28.879	21.134
10m	10.339	7.566	34.777	25.450	70.706	51.743	8.446	6.181	28.409	20.790	57.758	42.268
15m	15.509	11.350	52.166	38.175	106.059	77.615	12.669	9.271	42.613	31.185	86.638	63.402
20m	20.679	15.133	69.555	50.901	141.412	103.486	16.892	12.362	56.818	41.580	115.517	84.536
25m	25.848	18.916	86.943	63.626	176.765	129.358	21.115	15.452	71.022	51.975	144.396	105.670
30m	31.018	22.699	104.332	76.351	212.118	155.229	25.338	18.543	85.227	62.370	173.275	126.804
	6 L/Min		12 L/Min		18 L/Min		6 L/Min		12 L/Min		18 L/Min	

#### kPa Pressure Loss Comparison S1 20mm PB & PE-Xb to SG 20mm PB

Length	Cold Water 20°C						Hot Water 60°C					
	SecuraOne® 20mm	SecuraGold™ 20mm	SecuraOne® 20mm	SecuraGold™ 20mm	SecuraOne® 20mm	SecuraGold™ 20mm	SecuraOne® 20mm	SecuraGold™ 20mm	SecuraOne® 20mm	SecuraGold™ 20mm	SecuraOne® 20mm	SecuraGold™ 20mm
1m	0.321	0.149	1.078	0.502	2.192	1.021	0.262	0.122	0.881	0.410	1.791	0.834
2m	0.641	0.299	2.156	1.005	4.384	2.042	0.524	0.244	1.761	0.821	3.581	1.668
3m	0.962	0.448	3.234	1.507	6.576	3.064	0.785	0.366	2.642	1.231	5.372	2.503
4m	1.282	0.597	4.312	2.009	8.768	4.085	1.047	0.488	3.523	1.641	7.162	3.337
5m	1.603	0.747	5.391	2.511	10.960	5.106	1.309	0.610	4.403	2.052	8.953	4.171
10m	3.205	1.493	10.781	5.023	21.919	10.212	2.618	1.220	8.807	4.103	17.905	8.342
15m	4.808	2.240	16.172	7.534	32.879	15.318	3.927	1.830	13.210	6.155	26.858	12.513
20m	6.410	2.987	21.562	10.046	43.838	20.424	5.237	2.440	17.614	8.206	35.811	16.684
25m	8.013	3.733	26.953	12.557	54.798	25.530	6.546	3.050	22.017	10.258	44.763	20.855
30m	9.616	4.480	32.343	15.068	65.757	30.636	7.855	3.660	26.421	12.309	53.716	25.026
	6 L/Min		12 L/Min		18 L/Min		6 L/Min		12 L/Min		18 L/Min	

Flow Rates based on G12/AS1 Acceptable Flow Rates to Sanitary Appliances: 6 L/Min 0.1L/Sec; 12 L/Min 0.2 L/Sec; 18 L/Min 0.3 L/Sec