

Design - Guidelines

Calculation - Series 1

TABLE OF FRICTION LENGTHS AND MOVEMENTS

Maximum axial stress is 150 Mpa for single pipes (equivalent $T=60^{\circ}\text{C}$). Maximum axial stress is 150+50 Mpa for double pipes. Temperature difference between supply and return line is 40°C , soil covering 0.6 m; bending radius 3s. Number of full cycles: 1000 cycles for DN 25-65; 250 cycles for DN80-300; 100 cycles for DN 350-900.

Dimensions	Friction force	Friction length	Movement	Length L - bend
	N/m	m	mm	mm
25	956	36	13	0.7
32	1189	42	15	0.8
40	1192	48	18	1.0
50	1379	58	22	1.2
65	1565	65	24	1.6
80	1822	72	27	1.6
100	2359	81	30	1.9
125	2719	87	32	2.4
150	3102	102	38	2.9
200	4130	113	42	3.6
250	5584	116	43	4.2
300	6556	131	48	4.5
350	7524	125	46	5.0
400	8808	138	51	5.6
450	8958	153	56	6.5
500	10516	145	54	8.2
600	12252	163	60	8.2
700	15152	179	66	9.4
800	181216	188	70	10.4

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