

Design - Guidelines

Calculation - Series 2

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	1185	29	11	0.5
32	1365	36	13	0.7
40	1368	42	15	0.9
50	1556	52	19	1.2
65	1811	56	21	1.5
80	2075	64	24	1.5
100	2693	71	26	1.8
125	3064	77	26	1.8
150	3530	90	33	2.7
200	4749	98	36	3.4
250	6439	100	37	4.0
300	7449	115	43	4.2
350	8652	109	40	4.6
400	10201	119	44	5.2
450	10351	132	49	6.1
500	12211	125	46	6.4
600	14664	141	52	7.6
700	17568	154	57	8.7
800	20711	165	61	9.8

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