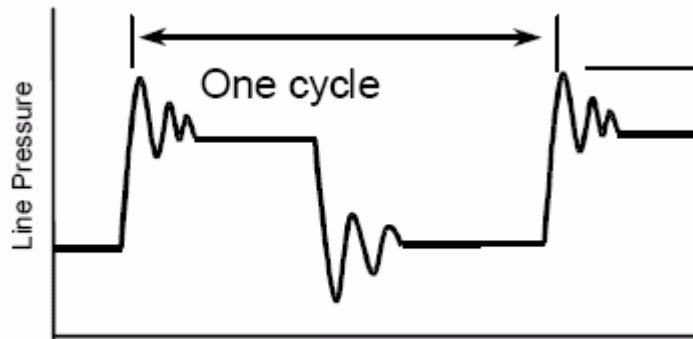


Thermoplastic Pipes – Cycling Loading

		FATIGUE LOAD FACTORS				
Total Cycles	Approx. No. Cycles /day for 100y life	UPVC	OPVC	MPVC	PE80B PE100	PE80C
26,400	0.7	1.00*	1.00*	1.00	1.00*	1.00*
100,000	3	1.00	1.00	0.67	1.00	1.00
500,000	14	0.62	0.79	0.41	0.95	0.76
1,000,000	27	0.50	0.71	0.33	0.88	0.67
5,000,000	137	0.31	0.55	0.21	0.74	0.50
10,000,000	274	0.25	0.50	0.17	0.68	0.44
50,000,000	1369	0.15	0.39	0.10	0.57	0.33
100,000,000	2738	0.13	0.35	0.08	0.53	0.29

• Maximum allowable factor for fatigue loading pressure cycles



	UPVC	MPVC	OPVC
Material Strength	Good	Good	Best
Fracture Response	Good	Better	Best
Fatigue Performance	Better	Good	Best
Toughness	Good	Better	Best
Material Ductility	Good	Better	Best
Factor of Safety	Best	Good	Best
Stiffness	Best	Better	Good
Flow Capacity	Good	Better	Best