

Koyo® TECHNICAL BULLETIN

Heating Temperature vs. Expansion

		Diameter in Inches							
		1	2	3	4	5	6	7	8
		Expansion in Inches							
Degrees in Fahrenheit Above Ambient	40	0.0002	0.0005	0.0008	0.0011	0.0014	0.0016	0.0020	0.0022
	50	0.0003	0.0070	0.0010	0.0014	0.0018	0.0021	0.0025	0.0027
	60	0.0003	0.0080	0.0011	0.0016	0.0021	0.0025	0.0030	0.0033
	70	0.0004	0.0010	0.0013	0.0019	0.0025	0.0029	0.0034	0.0038
	80	0.0004	0.0011	0.0015	0.0022	0.0028	0.0033	0.0039	0.0044
	90	0.0005	0.0012	0.0017	0.0025	0.0032	0.0037	0.0044	0.0049
	100	0.0005	0.0014	0.0019	0.0027	0.0036	0.0041	0.0049	0.0055
	110	0.0006	0.0015	0.0021	0.0030	0.0039	0.0045	0.0054	0.0060
	120	0.0007	0.0016	0.0023	0.0033	0.0043	0.0049	0.0059	0.0066
	130	0.0007	0.0018	0.0025	0.0036	0.0046	0.0053	0.0064	0.0071
	140	0.0008	0.0019	0.0027	0.0038	0.0050	0.0057	0.0069	0.0077
	150	0.0008	0.0021	0.0029	0.0041	0.0053	0.0062	0.0074	0.0082
160	0.0009	0.0022	0.0031	0.0044	0.0057	0.0066	0.0079	0.0087	

Typical Values for Carbon Steel/Cast Iron Components