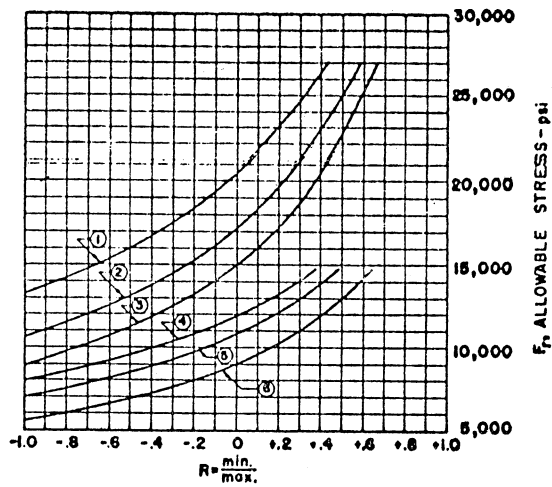




	CYCLES	FORMULA	CURVE NUMBER	k _r - low alloy steel			TYPE OF STRESS
				1 < 1/4"	1/4" < 1 < 1 1/4"	1 1/4" < 1 < 4"	
BASE METAL	100,000		①	1.22	1.17	1.09	TENSION
	500,000	$\frac{k_r(20,500)}{1-0.55R}$		1.16	1.12	1.07	
	2,000,000			1.11	1.08	1.05	
BASE METAL adjacent to Friction Type Fastener	100,000		①	1.22	1.17	1.09	TENSION
	500,000	$\frac{k_r(20,500)}{1-0.55R}$		1.16	1.12	1.07	
	2,000,000			1.11	1.08	1.05	
BASE METAL adjacent to Bearing Type Fastener	100,000	$\frac{k_r(20,500)}{1-0.55R}$	①	1.00	1.00	1.00	TENSION OR COMPRESSION
	500,000	$\frac{k_r(17,200)}{1-0.52R}$	②	1.00	1.00	1.00	
	2,000,000	$\frac{k_r(15,000)}{1-0.67R}$	③	1.00	1.00	1.00	
WELD METAL or BASE METAL adjacent to Built Weld	100,000	$\frac{k_r(20,500)}{1-0.55R}$	①	1.14	1.10	1.06	TENSION
	500,000	$\frac{k_r(17,200)}{1-0.62R}$	②	1.05	1.04	1.02	
	2,000,000	$\frac{k_r(15,000)}{1-0.67R}$	③	1.00	1.00	1.00	
WELD METAL	100,000	$\frac{k_r(12,000)}{1-0.50R}$	④	1.16	1.12	1.07	SHEAR
	500,000	$\frac{k_r(10,500)}{1-0.55R}$	⑤	1.08	1.06	1.03	
	2,000,000	$\frac{k_r(9,000)}{1-0.62R}$	⑥	1.00	1.00	1.00	

For A36 steel, use values from plotted curves.

For low alloy steels, multiply the curve value of F_r by the appropriate k_r value from the table.

Fatigue stress, F_r , shall not exceed the basic allowable stress.

ALLOWABLE STRESSES (FATIGUE)

FIGURE 4