



NOMINAL SPECIFICATIONS

- ACTUATION: SPRING-SET, HYDRAULIC PRESSURE RELEASED
VARYING SPRING FORCE COMPENSATED FOR BY TOGGLE LINKAGE

BD = DYNAMIC BRAKE FORCE @ FRICTION PADS = 12,500 LB (55,600 N)
BS = STATIC BRAKE FORCE @ FRICTION PADS = 10,000 LB (44,500 N)

- BRAKE FORCES AT THE RAIL (ASSUMING NO SLIPPING OR SKIDDING):

$$FD = \text{DYNAMIC BRAKE FORCE} = \frac{BD}{2} \times \frac{(\text{WHEEL FACE O.D.} + \text{I.D.})}{(\text{TREAD DIAMETER})} \text{ LB (N)}$$

$$FS = \text{STATIC BRAKE FORCE} = \frac{BS}{2} \times \frac{(\text{WHEEL FACE O.D.} + \text{I.D.})}{(\text{TREAD DIAMETER})} \text{ LB (N)}$$

- PRESSURES : - RELEASE 1300 PSI (90 BAR)
HOLD-OFF 1200 PSI (82 BAR)
MAX. WORKING (2000 PSI (136 BAR))



WLB10F DYNAMIC WHEEL BRAKE FLANGE MOUNTED

NAJ	DATE: 930111	DWG. NO.
	REV.:	WLB10F-01.1
PATH: stb/wlc/wlb10f		