MANUAL RELEASE & SPRING CAGING BOLT FOR EASE OF INSTALLATION AND SERVICE

LINKAGE GEOMETRY COMPENSATES FOR SPRING FORCE VARIATION

MECHANISM FREE-FLOATING WHEN SET AND SELF-CENTERING WHEN RELEASED

120 VAC RELEASE INTERLOCK LIMIT SWITCH

SIX (6) SLOTTED HOLES 1.06 X 1.5 IN. (29 X 38 mm) FOR CENTERING WHEEL BRAKE ON CRANE WHEEL

1/2 NPT ELECT CONNECTION TO LIMIT SWITCH

3/8 NPT HYD CONNECTION (OPPOSITE SIDE)

DATUM @ O.D. OF CRANE WHEEL

GUIDED SHOES FOR EVEN WEAR AND NO DRAGGING WHEN RELEASED

TREAD DIAMETER

WHEEL FACE O.D.

MINIMUM WHEEL FACE WIDTH IS 2.5 (16)

I.D.

TYPICAL
8 (203)   WHEEL
8.13 (207)   OPENING
8.5 (216)   8.5 (216)
21 (533)

17 (432)
13 (330)
4 (102)

10.75 (273)
11 (280) MIN. OPENING
14 (356)
17 (432)

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)

KOR·PAK CORPORATION

WLB10F DYNAMIC WHEEL BRAKE
FLANGE MOUNTED

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