



Oil Cooled Adjustable Automatic Safety Brake

1200 and 1200C Series Hydraulic Cable Winches and Speed Reducers

- 1) Install woodruff key and keyed pressure disc onto worm shaft.
- 2) Looking at gear case from the cover side, and with base of winch facing downward, determine which side hydraulic motor is on (left or right).
- 3) Install (2) 1/2" diameter steel balls in slots "A" or "B" of moving pressure disc using hard grease to hold balls in place. Determine which slots to use from table below.

Motor on Right

Looking at gear case from the cover side, determine rotational direction of drum to lower load. If rotational direction is counter-clockwise - use slots "A"; if clockwise - use slots "B".

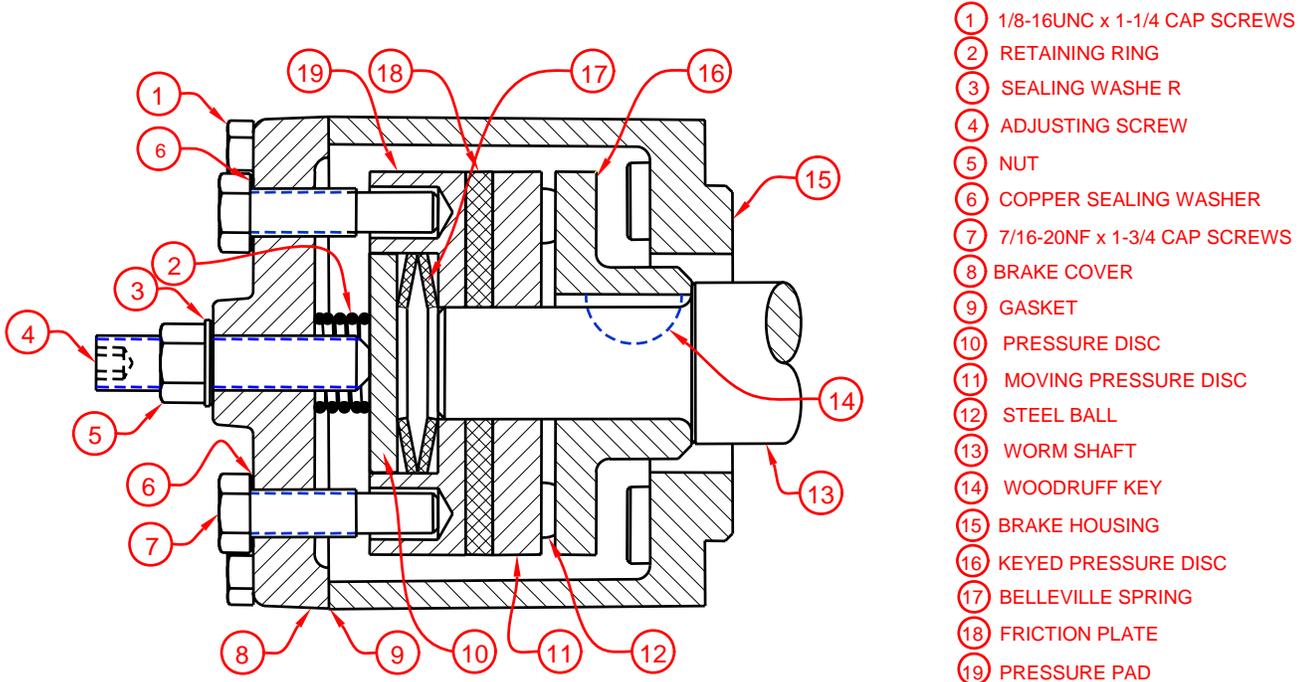
Motor on Left

Looking at gear case from the cover side, determine rotational direction of drum to lower load. If rotational direction is clockwise - use slots "A"; if counter-clockwise - use slots "B".



- 4) Install moving pressure disc and steel balls. Line up balls with slots in keyed pressure disc (as shown on drawing & ref. 11).
- 5) Install friction plate.
- 6) Install pressure pad with belleville springs and pressure disc in place shown.
- 7) Place (1) copper sealing washer each over (2) 7/16" - 20 x 1-3/4" cap screws. Thread cap screws into brake cover and tighten securely. Thread 1/2" - 20 NF x 2" socket head adjusting screw into brake cover. Slip retaining spring over adjusting screw and install brake cover and gasket, lining up holes in pressure pad with 7/16" cap screws. Secure brake cover with (4) 3/8" - 16 NC x 1-1/4" cap screws.
- 8) Make sure that adjusting screw is loose by rotating counter-clockwise three revolutions. Operate winch in lifting mode with no load for 5 seconds. To set brake, turn adjusting screw clockwise until finger tight., then insert hex key and rotate clockwise 1/4 revolution. Hold hex key and tighten 1/2" - 20 NF nut against sealing washer. For more braking action loosen nut and rotate adjusting screw clockwise in 1/4 turn increments until desired braking is obtained.

Note: Units shipped from the factory have steel balls in slots "B" unless otherwise specified.



- ① 1/8-16UNC x 1-1/4" CAP SCREWS
- ② RETAINING RING
- ③ SEALING WASHER
- ④ ADJUSTING SCREW
- ⑤ NUT
- ⑥ COPPER SEALING WASHER
- ⑦ 7/16-20NF x 1-3/4" CAP SCREWS
- ⑧ BRAKE COVER
- ⑨ GASKET
- ⑩ PRESSURE DISC
- ⑪ MOVING PRESSURE DISC
- ⑫ STEEL BALL
- ⑬ WORM SHAFT
- ⑭ WOODRUFF KEY
- ⑮ BRAKE HOUSING
- ⑯ KEYED PRESSURE DISC
- ⑰ BELLEVILLE SPRING
- ⑱ FRICTION PLATE
- ⑲ PRESSURE PAD

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