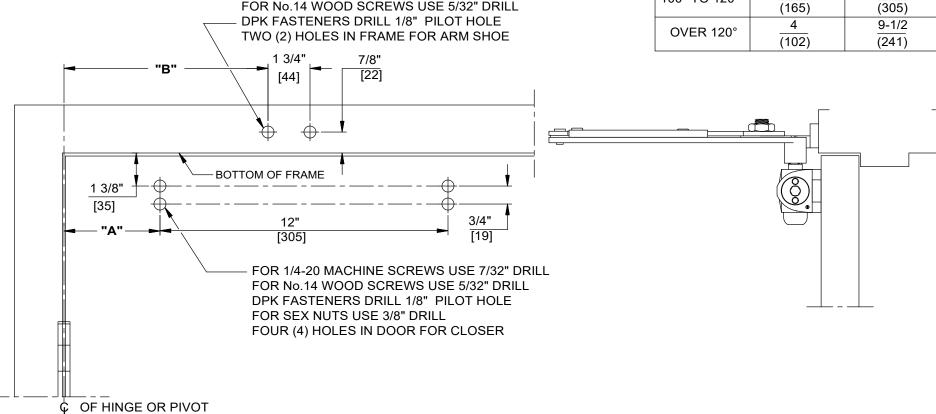
NOTES:

- 1. DO NOT SCALE DRAWING.
- 2. DIMENSIONS ARE IN INCHES/(MM).
- 3. RIGHT HAND DOOR SHOWN.
- 4. CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACED COMPOSITE TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.
- 5. MAX. OPENING IS 180°.
- 6. OPTIONAL DPK FASTENERS (DPK86) FOR STEEL DOOR & FRAME ONLY.

ANGLE OF OPENING	DIM. "A" CLOSER	DIM."B" ARM SHOE
TO 100°	<u>7-1/2</u> (191)	13 (330)
100° TO 120°	6-1/2 (165)	12 (305)
OVER 120°	4 (102)	9-1/2 (241)



FOR 1/4-20 MACHINE SCREWS USE 7/32" DRILL

DOOR CLOSER MODELS: 8616 FH REGULAR INSTALLATION (PULL SIDE MOUNT)



ANGLE

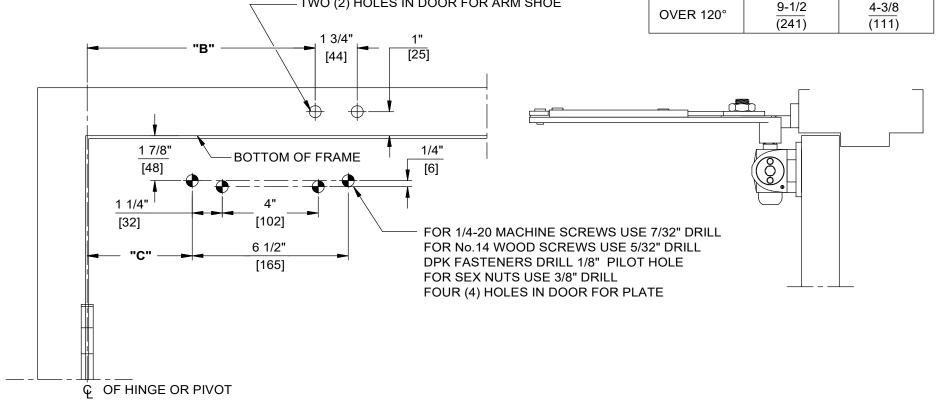
DIM."B"

DIM. "C"

NOTES:

- 1. DO NOT SCALE DRAWING.
 2. DIMENSIONS ARE IN INCHES/(MM).
- 3. RIGHT HAND DOOR SHOWN.
- 4. CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACED COMPOSITE TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.
- 5. MAX. OPENING IS 180°.
- 6. OPTIONAL DPK FASTENERS (DPK86) FOR STEEL DOOR & FRAME ONLY.

OF ARM SHOE PLATE **OPENING** 13 7-7/8 0° TO 100° (330)(200)FOR 1/4-20 MACHINE SCREWS USE 7/32" DRILL 12 FOR No.14 WOOD SCREWS USE 5/32" DRILL 6-7/8 100° TO 120° DPK FASTENERS DRILL 1/8" PILOT HOLE (305)(175)TWO (2) HOLES IN DOOR FOR ARM SHOE 9-1/2 4-3/8 OVER 120° (241)(111)



DOOR CLOSER MODELS: 8616 FH REGULAR INSTALLATION (PULL SIDE MOUNT) WITH PLATES BP86, BP86FC

