

5 KNUCKLE HINGES

Full Mortise Standard Weight Plain Bearing

F179 – (ANSI A8133 except for 3" x 3") Steel – polished and plated or phosphated and prime coated for painting

F191 – (ANSI A2133) Brass or bronze – polished and plated or painted

F191 (32) – (ANSI A5133) Stainless steel – highly polished

F191 (32D) – (ANSI A5133) Stainless steel – satin finish

- For use on internal or external doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Use anti-friction bearing hinges on high and average frequency doors and all doors equipped with door closers
- Hinges can be furnished with hospital tips (HT)



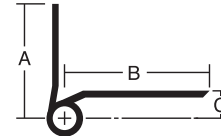
| Size Open | | Gauge of Metal | | Flat Head Screws/Per Piece | | Quantity | | Case Weight | |
|---------------|-------------|----------------|-------|----------------------------|----------------|----------|----------|-------------|-----------|
| | | | | | | | | Steel | Brass |
| Inches | (mm) | Inches | (mm) | Machine | Wood | Per Box | Per Case | Lbs. (Kg) | Lbs. (Kg) |
| 3 x 3* | (76 x 76) | .080 | (2) | | 6 - 9 x 3/4 | 2 EA. | 100 EA. | 32 (15) | |
| 3 1/2 x 3 | (89 x 76) | .123 | (3.1) | 6 - 10-24 x 1/2 | 6 - 10 x 1 | 2 EA. | 100 EA. | 60 (27) | 64 (29) |
| 3 1/2 x 3 1/2 | (89 x 89) | .123 | (3.1) | 6 - 10-24 x 1/2 | 6 - 10 x 1 | 2 EA. | 100 EA. | 66 (30) | 72 (33) |
| 4 x 3 1/2 | (102 x 89) | .130 | (3.3) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 48 EA. | 38 (17) | 44 (20) |
| 4 x 4 | (102 x 102) | .130 | (3.3) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 48 EA. | 43 (20) | 46 (21) |
| 4 1/2 x 4 | (114 x 102) | .134 | (3.4) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 48 EA. | 51 (23) | 54 (25) |
| 4 1/2 x 4 1/2 | (114 x 114) | .134 | (3.4) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 48 EA. | 55 (25) | 60 (27) |
| 5 x 4 | (127 x 102) | .146 | (3.7) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 30 EA. | 40 (18) | 43 (20) |
| 5 x 4 1/2 | (127 x 114) | .146 | (3.7) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 30 EA. | 43 (20) | 46 (21) |
| 5 x 5* | (127 x 127) | .146 | (3.7) | 8 - 12-24 x 1/2 | 8 - 12 x 1 1/4 | 3 EA. | 30 EA. | 46 (21) | 51 (23) |

*Steel only – for other substrates consult factory

Half Surface Standard Weight Plain Bearing

F173 – (ANSI A8433) Steel – polished and plated or phosphated and prime coated for painting

- For low frequency kalamein or wood doors with hollow metal frames (use ball bearing hinges on all doors equipped with door closers)
- Easily applied as only jamb leaf is mortised
- Packed with machine screws and grommet nuts



Measurements below

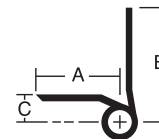


| Size Length of Joint | Width | | Offset (C) | Gauge of Metal | Flat head Machine Screws/Per Piece | | Quantity Per Box | Quantity Per Case | Case Weight |
|----------------------|----------------|---------------|-------------|----------------|------------------------------------|--------------|------------------|-------------------|-------------|
| | Frame Leaf (A) | Door Leaf (B) | | | Frame Leaf | Door Leaf | | | |
| 4 1/2 (114) | 2 1/16 (52.4) | 2 9/16 (65.1) | 9/16 (14.3) | .134 (3.4) | 4-12-24 X 1/2 | 3-1/4-20 X 2 | 3 EA. | 30 EA. | 37 (17) |

Half Mortise Standard Weight Plain Bearing

F167 – (ANSI A8233) Steel – polished and plated or phosphated and prime coated for painting

- For low frequency hollow metal or wood doors with channel iron frames (use ball bearing hinges on all doors equipped with door closers)
- Easily applied as only door leaf is mortised



Measurements below



| Size Length of Joint | Width | | Offset (C) | Gauge of Metal | Quantity & Size of Screws/Per Piece | | Quantity Per Box | Quantity Per Case | Case Weight |
|----------------------|----------------|---------------|-------------|----------------|-------------------------------------|---------------|------------------|-------------------|-------------|
| | Frame Leaf (A) | Door Leaf (B) | | | Frame Leaf | Door Leaf | | | |
| 4 1/2 (114) | 1 1/2 (38.1) | 2 1/16 (52.4) | 7/16 (11.1) | .134 (3.4) | 4-12-24 X 1/2 | 3-12-24 X 1/2 | 3 EA. | 30 EA. | 28 (13) |

Conversion Tips and Pins

- Converts standard flush tip hinges
- Available in three styles, Ball • Crown • Steeple
- Same tips fit "CB", "1900R" and "F" line hinges
- Conversion pins are stainless
- Conversion pins accept NRP screw
- Knurl eliminates pin rotation
- For heavy weight consult factory

Standard weight Tips and Pins

