

## 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 Per Box | Quantity Per Case | Case Weight |      |       |      |
|---------------|-------------|----------------|-------|----------------------------|----------------|------------------|-------------------|-------------|------|-------|------|
| Inches        | (mm)        | Inches         | (mm)  | Machine                    | Wood           |                  |                   | Bronze      |      | Steel |      |
|               |             |                |       |                            |                |                  |                   | Lbs.        | (Kg) | Lbs.  | (Kg) |
| 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 127) | .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) |

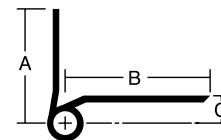
\*Steel only – for other substrates consult factory

### Half Surface Standard Weight Plain Bearing

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



- For low frequency 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
- Packed with machine screws and grommet nuts



Measurements below



| Size Length of Joint |       | Width          |               | Offset |        | Gauge of Metal |            | Flat Head Screws Per Piece |       | Quantity Per Box | Quantity Per Case | Case Weight |        |    |      |
|----------------------|-------|----------------|---------------|--------|--------|----------------|------------|----------------------------|-------|------------------|-------------------|-------------|--------|----|------|
|                      |       | Frame Leaf (A) | Door Leaf (B) | (C)    |        |                | Frame Leaf | Door Leaf                  |       |                  |                   |             |        |    |      |
| Inches               | (mm)  | Inches         | (mm)          | Inches | (mm)   | Inches         | (mm)       | (mm)                       |       |                  |                   |             |        |    |      |
| 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) |