

Heavy Weight Ball Bearing

FBB168 – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting

FBB199 – (ANSI A2111) Brass or bronze – polished and plated or painted

FBB199 (32) – (ANSI A5111) Stainless steel – highly polished

FBB199 (32D) – (ANSI A5111) Stainless steel – satin finish

- For use on heavy doors or doors where high frequency is expected such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



| 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 Lbs. | (Kg) | Steel Lbs. | (Kg) |
| 4 1/2 x 4 1/2 | (114 x 114) | .180 | (4.6) | 8 - 12-24 x 1/2 | 8 -12 x 1 1/4 | 3 EA. | 30 EA. | 45 | (21) | 42 | (19) |
| 5 x 4 1/2 | (127 x 114) | .190 | (4.8) | 8 - 12-24 x 1/2 | 8 -12 x 1 1/2 | 3 EA. | 24 EA. | 46 | (21) | 40 | (18) |
| 5 x 5 | (127 x 127) | .190 | (4.8) | 8 - 12-24 x 1/2 | 8 -12 x 1 1/2 | 3 EA. | 24 EA. | 50 | (23) | 46 | (21) |
| 6 x 4 1/2 | (152 x 114) | .203 | (5.2) | 10 - 1/4-20 x 1/2 | 10 -14 x 1 1/2 | 3 EA. | 24 EA. | 63 | (29) | 53 | (24) |
| 6 x 5 | (152 x 127) | .203 | (5.2) | 10 - 1/4-20 x 1/2 | 10 -14 x 1 1/2 | 3 EA. | 24 EA. | 65 | (30) | 55 | (25) |
| 6 x 6 | (152 x 152) | .203 | (5.2) | 10 - 1/4-20 x 1/2 | 10 -14 x 1 1/2 | 3 EA. | 24 EA. | 76 | (35) | 61 | (28) |
| 8 x 6* | (203 x 152) | .203 | (5.2) | 16 - 1/4-20 x 1/2 | 16 -14 x 1 1/2 | 3 EA. | 12 EA. | 57 | (26) | 51 | (23) |
| 8 x 8* | (203 x 203) | .203 | (5.2) | 16 - 1/4-20 x 1/2 | 16 -14 x 1 1/2 | 3 EA. | 12 EA. | 68 | (31) | 61 | (28) |

*Available in Steel only

Consult factory for other sizes not listed

GENERAL HINGE INFORMATION

Special Situation Products

- “CE” Concealed electric hinges conduct current regardless of door position to electric locks, exit devices, or hold open devices where tamper-proof hinge is required. Also to transmit signals from code readers on doors to remote computers for access control
- No electrical parts are exposed when hinge is installed
- Permanent fast pin
- Hinges should be installed in the center hinge location
- Not available as swing clear or raised barrel
- Hinges may be equipped with both concealed wires and concealed switches. When both are desired on the same hinge use prefix “CECS”
- Packed one per box with all machine screws and installation instructions
- When ordering specify class number, size, finish and number of wires
Suffix -54 for 4 wires, 56 for 6 wires -66 for 6 wires (2@24AWG, 4@28AWG), 58 for 8 wires or 10 for 10 wires
- Should be used along with a junction box
- Can be furnished with hospital tips

CECB179
CECB168
CECB191
CECB199
5-Knuckle
Concealed
Bearings



CEFBB179
CEFBB168
CEFBB191
CEFBB199
5-Knuckle
Exposed
Bearings



CECB1900R
CECB1901R
CECB1960R
CECB1961R
3-Knuckle
Concealed
Bearings



Not
Handed



Not
Handed



Handed
Specify
RH or LH



Electrical Ratings

| Suffix | # Wires | Wire Gage | Volts (AC or DC) | |
|--------|---------|-----------|------------------|------------------|
| | | | 6, 12, 24 | 48 |
| | | | Current | |
| -54 | 4 | 28AWG | 1 amp/wire | 5 milli-amp/wire |
| -56 | 6 | 28AWG | .7 amp/wire | 5 milli-amp/wire |
| -58 | 8 | 28AWG | .5 amp/wire | 5 milli-amp/wire |
| -10 | 10 | 28AWG | .4 amp/wire | 5 milli-amp/wire |
| -66* | 6 | 2@24AWG | 2 amp/wire | 5 milli-amp/wire |
| | | 4@28AWG | 1 amp/wire | 5 milli-amp/wire |

Inrush 15A for .05 second/wire

“CE” hinges are listed by UL at these ratings

* Not available in FBB168 and FBB199

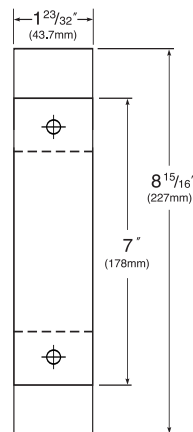
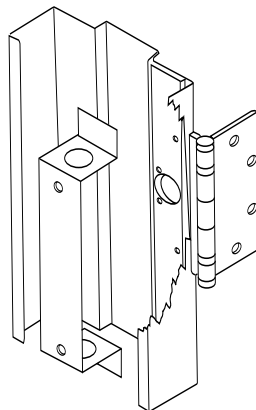
Class Number

| Class Number | Sizes Available | |
|------------------------|-----------------|-----------------|
| CB179, FBB179, CB1900R | 4 1/2" x 4" | (114mm x 102mm) |
| CB168, FBB168, CB1901R | 4 1/2" x 4 1/2" | (114mm x 114mm) |
| CB191, FBB191, CB1960R | 5" x 4" | (127mm x 102mm) |
| CB199, FBB199, CB1961R | 5" x 4 1/2" | (127mm x 114mm) |
| | 5" x 5" | (127mm x 127mm) |
| | 6" x 4 1/2" | (152mm x 114mm) |
| | 6" x 5"* | (152mm x 127mm) |
| | 6" x 6"* | (152mm x 152mm) |

* Not available in CB191, FBB191, CB1900R and CB1960R

JB2R – Junction Box

- Note: Install in middle hinge location
- Can be shop welded or field installed — before frames are set
- Fits either 4 1/2" (114mm) or 5" (127mm) size hinges



Junction Box
Top View



Right Side
View

GENERAL HINGE INFORMATION

Special Situation Products

- “CS” (Concealed Switch) Allows opening monitoring, switch operates when door is either open or closed. Used to activate alarms, monitoring devices, or other security equipment when a tamper-proof hinge is required
- Single pole double throw switch
- Packed one per box with screws and installation instructions
- No electrical parts are exposed when hinge is installed
- Hinges should be installed in the center hinge location
- When ordering specify class number, size, finish and hand of door
- Hinges are available as follows:
 - with Non-Removable Pins (NRP)
 - with hospital tips (HT)

CSCB179
CSCB168
CSCB191
CSCB199
 5-Knuckle
 Concealed
 Bearings



CSFBB179
CSFBB168
CSFBB191
CSFBB199
 5-Knuckle
 Exposed
 Bearings



CSCB1900R
CSCB1901R
CSCB1960R
CSCB1961R
 3-Knuckle
 Concealed
 Bearings



Electrical Ratings

| Volts AC or DC | Current Rating | |
|-------------------|----------------|-----------|
| | Resistive | Inductive |
| 6 | .30amp | .30amp |
| 12 | .25amp | .25amp |
| 24 | .20amp | .15amp |
| 48 | .15amp | .12amp |

Class Number

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|------------------------|---------------------------------|
| CB179, FBB179, CB1900R | 4 1/2" x 4" (114mm x 102mm) |
| CB168, FBB168, CB1901R | 4 1/2" x 4 1/2" (114mm x 114mm) |
| CB191, FBB191, CB1960R | 5" x 4" (127mm x 102mm) |
| CB199, FBB199, CB1961R | 5" x 4 1/2" (127mm x 114mm) |
| | 5" x 5" (127mm x 127mm) |
| | 6" x 4 1/2" (152mm x 114mm) |
| | 6" x 5" * (152mm x 127mm) |
| | 6" x 6" * (152mm x 152mm) |

* Not available in CB191, FBB191 and CB1960

Hinges may be equipped with both concealed wires and concealed switch. When both are desired use prefix CECS. Specify hand.



5-Knuckle
 Concealed Bearings



5-Knuckle
 Ball Bearings



3-Knuckle
 Concealed Bearings