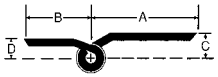
Full Surface

Five Knuckle



Ball Bearing - Standard Weight

For use on medium weight hollow metal or wood composite doors with channel iron frames requiring medium frequency service

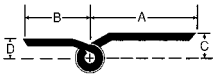
BB2110 Brass with Stainless Steel pin - ANSI A2312
Stainless Steel with Stainless Steel pin - ANSI A5312

BB2171 Steel with Steel pin - ANSI A8312

- Two ball bearings
- Non-rising removable pin with button tip and plug
- Beveled surface leaves
- Thru-bolts and grommets for wood door applications
- Reversible

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4 1/2	114	0.134	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4 1/2	114	2 9/16	65	1 1/2	38	1/2	12.5	3/8	10
5	127	2 7/8	73	1 1/2	38	1/2	12.5	3/8	10



Ball Bearing - Heavy Weight

For use on heavy hollow metal or wood composite doors with channel iron frames requiring high frequency service

BB2109 Brass with Stainless Steel pin - ANSI A2311
Stainless Steel with Stainless Steel pin - ANSI A5311

BB2169 Steel with Steel pin - ANSI A8311

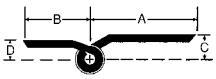
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Beveled surface leaves
- Thru-bolts and grommets for wood door applications
- Reversible

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4 1/2	114	0.180	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 OH
6†	152	0.203 Brass & Steel; .0.190 SS	9	2 x 1/4-20 OH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4 1/2	114	2 9/16	65	1 1/2	38	9/16	14	7/16	11
5	127	2 7/8	73	1 1/2	38	9/16	14	7/16	11
6†	152	3 1/4	83	1 1/2	38	5/8	15	1/2	12.5

† Door thickness must be specified

Five Knuckle



Ball Bearing - Heavy Weight

For use on tubular steel doors with channel iron frames requiring high frequency service

BB2108 Brass with Stainless Steel pin - ANSI A2361
Stainless Steel with Stainless Steel pin - ANSI A5361

BB2168 Steel with Steel pin - ANSI A8361

- Four ball bearings
- Non-rising removable pin with button tip and plug
- Beveled surface leaves
- Thru-bolts and grommets for wood door applications
- Reversible

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4 1/2	114	0.180	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH
6†	152	0.203 Brass & Steel; 0.190 SS	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4 1/2	114	2	51	1 1/2	38	9/16	14	7/16	11
5	127	2 5/16	59	1 1/2	38	9/16	14	7/16	11
6†	152	2 3/8	60	1 1/2	38	5/8	15	1/2	12.5

† Door thickness must be specified

Welding

Plain Bearing - Heavy Weight

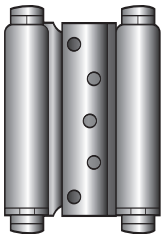
Manufactured with no holes and can easily be welded onto gates, Dumpsters, and industrial applications such as bins or warehouse doors

1850 Steel with Steel pin - ANSI K81081F

- Flat surface with no swage
- No holes
- Square corners
- Fast riveted pin

Hinge Size		Gauge of Metal	Pin Diameter
Inches	mm		
4 x 4	102 x 102	0.179	0.312
4 1/2 x 4 1/2	114 x 114	0.179	0.322
5 x 5	127 x 127	0.179	0.322
6 x 6	152 x 152	0.203	0.500

Spring



Double Acting

1303 Steel
Adjustable

Hinge Size		Hinges Per Door	Max. Door Weight	Door Thickness	Door Width
Inches	mm				
3	76	3	50 lbs.	1" door	2' 0" (61 cm)
3	76	3	50 lbs.	7/8" max. door	2' 1" (63.5 cm)
3	76	3	50 lbs.	3/4" min. door	2' 2" (66 cm)
4	102	3	75 lbs.	1 1/4" door	2' 0" (61 cm)
4	102	3	75 lbs.	1 1/8" max. door	2' 1" (63.5 cm)
4	102	3	75 lbs.	7/8" min. door	2' 2" (66 cm)
5	127	3	100 lbs.	1 1/2" door	2' 2" (66 cm)
5	127	3	100 lbs.	1 3/8" max. door	2' 3" (68.6 cm)
5	127	3	100 lbs.	1 1/8" min. door	2' 4" (71.1 cm)
6	152	3	125 lbs.	2" door	2' 4" (71.1 cm)
6	152	3	125 lbs.	1 3/4" max. door	2' 5" (73.7 cm)
6	152	3	125 lbs.	1 1/4" min. door	2' 6" (76.2 cm)

Three Knuckle

Concealed Anti-Friction Bearing - Standard Weight

For use on medium weight hollow metal or wood composite doors with hollow metal frames requiring medium frequency service

AB703 Steel with Steel pin - ANSI A8412

AB803 Brass with Stainless Steel pin - ANSI A2412
Stainless Steel with Stainless Steel pin - ANSI A5412

- Non-rising removable pin with flush pin and plug
- Beveled surface leaf
- Thru-bolts and grommets for wood door applications
- Reversible

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4 1/2	114	0.134	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-24 FH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4 1/2	114	2 9/16	65	2	51	1/2	12.5	1 1/2	38
5	127	2 7/8	73	2	51	1/2	12.5	1 1/2	38

Concealed Anti-Friction Bearing - Heavy Weight

For use on heavy weight hollow metal or wood composite doors with hollow metal frames requiring high frequency service

AB753 Steel with Steel pin - ANSI A8411

AB853 Brass with Stainless Steel pin - ANSI A2411
Stainless Steel with Stainless Steel pin - ANSI A5411

- Non-rising removable pin with flush pin and plug
- Beveled surface leaf
- Thru-bolts and grommets for wood door applications
- Reversible

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4 1/2	114	0.180	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 FH
6†	152	0.203 Brass & Steel; 0.190 SS	10	2 x 1/4-20 OH	1/2 x 1/4-20 FH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4 1/2	114	2 9/16	65	2 1/16	52	9/16	14	1 1/2	38
5	127	2 7/8	73	2 1/16	52	9/16	14	1 1/2	38
6†	152	3 1/4	83	2 1/8 or 2 1/2	54 or 64	5/8	16	1 1/2 or 1 7/8	38 or 48

† Door thickness must be specified