



5 KNUCKLE HINGES

Full Mortise Standard Weight Plain Bearing

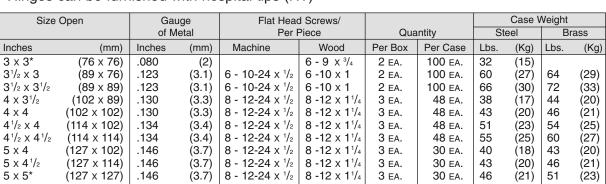
F179 - (ANSI A8133 except for 3" x 3") Steel - polished and plated or phosphated and prime coated for painting

(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

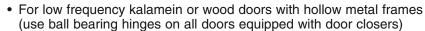
- For use on internal or external doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Use anti-friction bearing hinges on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



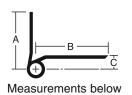
^{*}Steel only - for other substrates consult factory

Half Surface Standard Weight Plain Bearing

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



- · Easily applied as only jamb leaf is mortised
- Packed with machine screws and grommet nuts



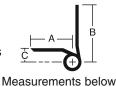


Size		Width				Offset		Gauge		Flat head Machine		Quantity	Quantity	Case	Weight
Length of Joint		Frame Leaf		Door Leaf		(=)		of Metal		Screws/Per Piece		Per Box	Per Case		
		(A)		(B)		(C)			ŀ						
Inches	(mm)	Inches	(mm)	Inches`	(mm)	Inches	(mm)	Inches	(mm)	Frame Leaf	Door Leaf			Lbs.	(Kg)
41/2	(114)	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





Size		Width			Offset		Gauge		Quantity & Size of		Quantity	Quantity	Case	Weight	
Length of Joint		Frame Leaf		Door Leaf				of Metal		Screws/Per Piece		Per Box	Per Case		
		(A)		(B)		(C)									
Inches	s (mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Frame Leaf	Door Leaf			Lbs.	(Kg)
41/2	(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





Ball



Standard weight Tips and Pins



Crown

Steeple

10M R1109