



PIVOTS

REINFORCING



251

Full Surface

- For 3-1/2" (89 mm) wide hinge
- Handed

252

Full Surface

- For 4" (102 mm) wide hinge
- Non-handed

253

Full Surface

- For 4-1/2" (114 mm) wide hinge
- Non-handed

254

Full Surface

- For 5" (127 mm) wide hinge
- Non-handed

Product	Butt Hinge Width		Projection*		Door Thickness	
	Inches	mm	Inches	mm	Inches	mm
251	3-1/2	89	5/8	16	1-3/8	35
252	4	102	1/2	12.5	1-3/4	45
253	4-1/2	114	3/4	19	1-3/4	45
254	5	127	1	25	1-3/4	45

*Projection from centerline of pivot to face of door.

Gauge of Metal	Screw Size	
	Machine	Wood
0.187	3/4 x 1/4-20	1-1/4 x 14

BALL AND THRUST BEARING - HEAVY WEIGHT



495

Top

- Forged bronze (ANSI C07162)



496

Intermediate

- Forged bronze (ANSI C07321)
- Handed



497

Bottom

- Forged bronze (ANSI C07131)
- 3/4" (19 mm) offset
- Two knuckle
- For doors up to and including 3'0" x 8'0" (912 mm x 2438 mm) weighing maximum of 350 pounds, apply all three pivots 495, 496, 497
- For doors over 3'6" (1067 mm) up to 4'0" (1219 mm) in width, add one additional intermediate pivot, 496
- For each additional 12" (305 mm) in door height over 8'0" (2438 mm) add one intermediate pivot, 496
- Handed

Product	Hole Count	Screw Size	
		Machine	Wood
495	8	5/8 x 1/4-20	1-1/2 x 14
496	10	5/8 x 1/4-20	1-1/2 x 14
497	8	5/8 x 1/4-20	1-1/2 x 14





PIVOTS

SINGLE ACTING - STANDARD WEIGHT



Top



Bottom

500

Rack and Pinion

- ANSI A2793
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 80 pounds
- Not to exceed 3' (914 mm) wide and 7' (2134 mm) high
- Cased opening frame required
- Consult Hager Tech Support for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

SINGLE ACTING - EXTRA HEAVY WEIGHT



Top



Bottom

551

Extra Heavy Duty Rack and Pinion

- ANSI A2792
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 180 pounds
- Not to exceed 4" (102 mm) wide and 8" (203 mm) high
- Cased opening frame required
- Consult Hager Tech Support for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

SINGLE ACTING - HEAVY WEIGHT



Top



Bottom

550

Heavy Duty Rack and Pinion

- ANSI A2792
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 150 pounds
- Not to exceed 3' (914 mm) wide and 7' (2134 mm) high
- Cased opening frame required
- Consult Hager Tech Support for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

HEAVY WEIGHT



615

For Frameless Openings

- ANSI A8782
- For use on doors up to 150 lbs and 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Pivot opens door to 180° maximum
- Screw slots for horizontal or vertical adjustment

Wood Screw Size
12 x 1-1/4



PIVOTS

CAMTROL DOUBLE ACTING - HOSPITAL SET - RESCUE HARDWARE

The following pivots are for use on:

- Wood or metal doors up to 135 lbs
- Doors not over 3'6" x 7' (1067 mm x 2134 mm)
- Wood or metal frames
- Allows for square edge door on lock side, bull nose not required

Mortise Application in Wood Floors



510

Head and Floor Pivots

- ANSI A5702
- For use with square edge doors on hinge side

600

Head and Floor Pivots with Door Release (Set)

ANSI A5702

Surface Application in Masonry Floors



512

Head and Floor Pivots

- ANSI A5702
- For use with square edge doors on hinge side

612

Head and Floor Pivots with Door Release (Set)

ANSI A5702

Door Release



610

Door Release

ANSI A1882

Mortise Application in Masonry Floors



511

Head and Floor Pivots

- ANSI A5702
- For use with square edge doors on hinge side

611

Head and Floor Pivots with Door Release (Set)

ANSI A5702

Item No	Anchor Housing	
	Inches	mm
510 & 600	3-7/8 x 1-7/8 x 7/8	98 x 48 x 22
511 & 611	3-7/8 x 1-1/4 x 7/8	98 x 32 x 22
512 & 612	3-7/8 x 1-1/4 x 7/8	98 x 32 x 22

Door Mount Brackets Screw Size		Head Cam Box Screw Size		Floor Cam Box Screw Size	
Machine	Wood	Machine	Wood	Machine	Wood
1/2 x 12-24 FH	1-1/4 x 12 FH	1-1/4 x 12-24 FH	1-1/2 x 12-24 FH	-	1-1/2 x 12 FH

610					
Mortise Depth		Face Plate		Screw Size	
Inches	mm	Inches	mm	Machine	Wood
1-13/16	46	1-1/2 x 4-1/2 x 3/16	38 x 114 x 5	1/2 x 12-24 FH	1-1/4 x 12 FH

*Plastic cinch anchors





PIVOTS

DOUBLE LIPPED STRIKE

451

Center Hung Doors

- Brass
- ANSI A1882



Center Hung

452

Center Hung Doors

- Brass
- ANSI A1882



1/8" (3.2 mm)
Inset Hung

453

1/8" (3.2 mm) Inset Hung Doors

- Brass
- ANSI A1882

454

1/8" (3.2 mm) Inset Hung Doors

- Brass
- ANSI A1882
- To be used with Hager 600, 611, and 612 pivots and door release - this allows doors to be opened in both directions without damage to frame
- Standard latchbolt cutout is 1-1/4" x 11/16" (32 mm x 17 mm)
- Standard strike plates are optimized for cylindrical locks/latches mounted on 1-3/4" thick doors
- Mortise lock applications require special latch cutout location (consult specific manufactures for variations of cutout dimensions)
- For use with Camtrol double acting pivot

COMBINATION RESCUE DOOR STOP AND TWO WAY STRIKE PLATE (EMERGENCY STRIKE)

455

Center Hung Doors

- Brass
- ANSI A1882



Center Hung

456

Center Hung Doors

- Brass
- ANSI A1882



1/8" (3.2 mm)
Inset Hung

457

1/8" (3.2 mm) Inset Hung Doors

- Brass
- ANSI A1882

458

1/8" (3.2 mm) Inset Hung Doors

- Brass
- ANSI A1882
- Handed
- To be used with Hager 510, 511, and 512 pivots
- Door release allows doors to be opened in both directions without damage to frame
- Standard latchbolt cutout is 1-1/4" x 11/16" (32 mm x 17 mm)
- Standard strike plates are optimized for cylindrical locks/latches mounted on 1-3/4" thick doors
- Mortise lock applications require special latch cutout location (consult specific manufactures for variations of cutout dimensions)

Product	Face Plate		Gauge of Metal	Hole Count	Screw Size
	Inches	mm			
451	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
452	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH
453	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
454	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH

Product	Face Plate		Gauge of Metal	Hole Count	Screw Size
	Inches	mm			
455	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
456	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH
457	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
458	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH

Catalog Number	Frame Width
452 & 454	4-3/4"
	5-1/4"
	5-7/8"
	6-1/8"
	6-1/4"
	6-1/2"
	7-1/8"
	7-1/2"
	7-3/4"
	8
Special Sizes Available	8-1/4"
	8-3/4"

Catalog Number	Frame Width
456 & 458	4-3/4"
	5-1/4"
	5-7/8"
	6-1/8"
	6-1/4"
	6-1/2"
	7-1/8"
	7-1/2"
	7-3/4"
	8
Special Sizes Available	8-1/4"
	8-3/4"