

Mounting Types

Pull Style	PULL ON ONE SIDE OF DOOR								PULL ON BOTH SIDES OF DOOR (BTB)				
Mounting Style	Thru Bolt	Deco Thru Bolt	Concealed						Conehead/Set Screw				Lug Plate
Door Type	Wood/Metal		Glass	Metal	Metal	Wood	Wood	Wood	Wood/Metal		Glass		Any
Coneheads	NA	NA	NA	Single	Single	Single	Double	Double	Single	Double	Single	Double	Single
Mounting Type	Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Standard (STD) Bolt Size	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20
Heavy Duty (HD) Bolt Size	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	
Extra Heavy Duty (XHD) Bolt Size	3/8"-16	3/8"-16	3/8"-16										

Straight Pulls														
Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED								MAXIMUM BOLT SIZE ALLOWED				
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Straight	1/2"	STD	STD	STD			STD					STD		
Straight	5/8"	HD	HD	HD	STD		STD			STD		STD		STD
Straight	1"	HD	HD	HD	HD	HD	HD			HD		HD		STD

Offset Pulls														
Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED								MAXIMUM BOLT SIZE ALLOWED				
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Offset	1/2"	STD	STD	STD									STD	
Offset	5/8"	HD	HD	HD									STD	
Offset	1"	XHD	XHD	XHD				HD	STD		HD		HD	
Offset	1 1/4"	XHD	XHD	XHD				HD	STD		HD		HD	

Set Mounting Charges

Mounting Spec #	Door Type	Pull Type	Mounting Type		
			Pull Free End	Push Free End	Common End
T1	Metal & Wood	Straight or Offset	12	12	5
T1HD	Metal & Wood	Straight or Offset	12HD	12HD	5HD
T2	Glass	Straight or Offset	15	15	13
T2HD	Glass	Straight or Offset	15HD	15HD	13HD
T3*	Metal & Wood	Straight or Offset	1	1	5
T3HD	Metal & Wood	Straight or Offset	1HD	1HD	5HD
T4	Metal	Straight	6	6	5
T4HD	Metal	Straight	6HD	6HD	5HD
T4	Metal	Offset	17	17	16
T4HD	Metal	Offset	17HD	17HD	16HD
T5	Wood	Straight or Offset	8	8	5

*T3 is the standard mounting method for Metal and Wood Doors.
NOTE: Heavy Duty (HD) mounting features hex drive for positive tightening and large overall size for superior strength. Recommended for high frequency and rough service openings.

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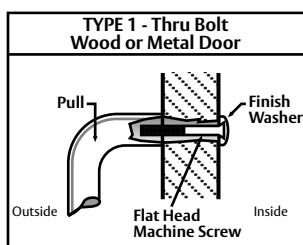
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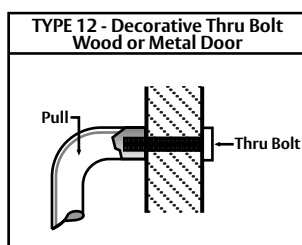
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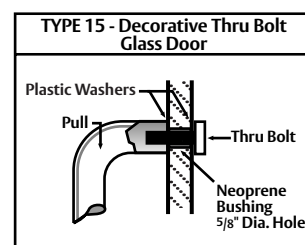
Free End Thru Bolt



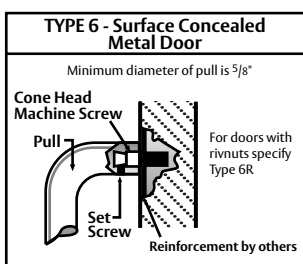
Type	Bolt Size	Drill Size
1	1/4"-20	9/32
1HD	5/16"-18	11/32
1XHD	3/8"-16	13/32



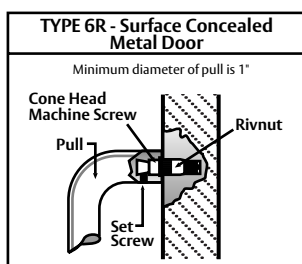
Type	Bolt Size	Drill Size
12	1/4"-20	9/32
12HD	5/16"-18	11/32
12XHD	3/8"-16	13/32



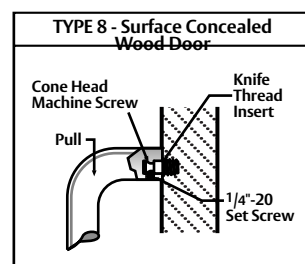
Type	Bolt Size	Drill Size
15	1/4"-20	5/8
15HD	5/16"-18	5/8
15XHD	3/8"-16	5/8



Type	Bolt Size	Drill Size
6	1/4"-20	1/4"-20 Tap
*6HD	5/16"-18	5/16"-18 Tap

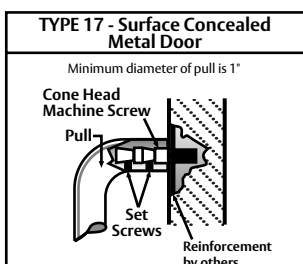


Type	Bolt Size	Drill Size
6	1/4"-20	N/A
*6HD	5/16"-18	N/A

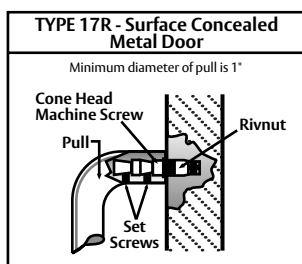


Type	Bolt Size	Drill Size
8	1/4"-20	23/64"-9/16 dp.
*8HD	5/16"-18	7/16"-9/16 dp.

Free End Concealed



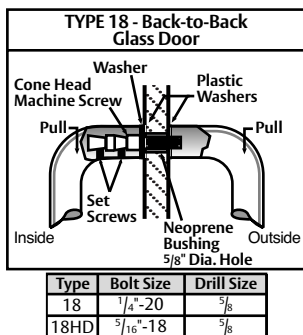
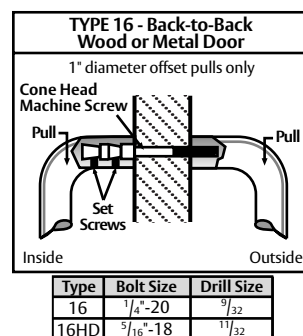
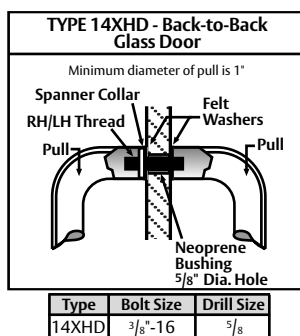
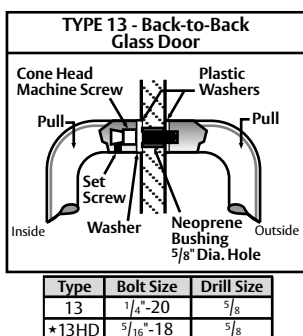
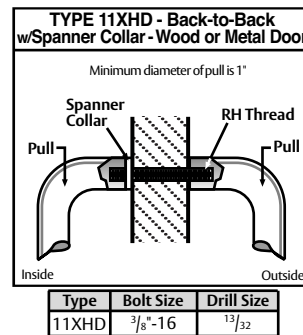
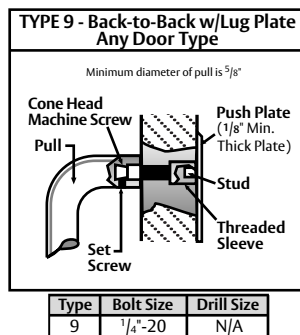
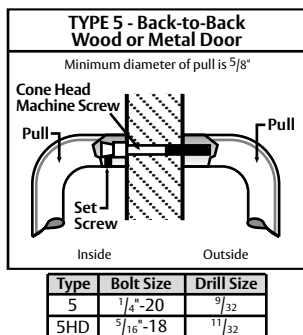
Type	Bolt Size	Drill Size
17	1/4"-20	1/4"-20 Tap
17HD	5/16"-18	5/16"-18 Tap



Type	Bolt Size	Drill Size
17R	1/4"-20	N/A
17RHD	5/16"-18	N/A

*HD mountings feature 2 set screws 180° apart.

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Common End
Back-to-Back

*HD mountings feature 2 set screws 180° apart.

NOTE: Y base plates are recommended on wood or glass doors to make a stable and durable mounting (see page 40 for details).
NOTE: Heavy Duty (HD) mounting features hex drive for positive tightening and large overall size for superior strength.
Recommended for high frequency and rough service openings.

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Push and Pull Bar Mounting Details

Sizing of Push Bars

Flush Doors

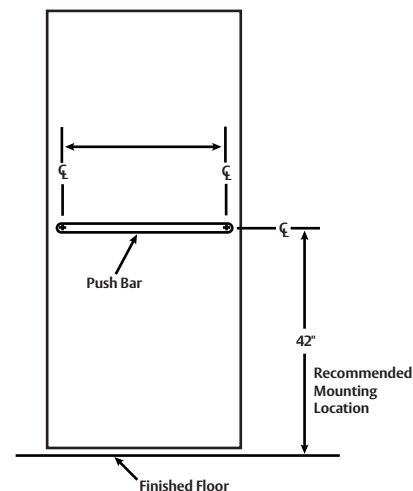
- Door width: • minus 5" for bent end bars
• minus 5" for square end post mount bars
• minus 7" for round end post mount bars

Stile and Rail Doors or Doors with Lites

- Door width: • minus width of one stile

CAUTION: Always confirm bars will not interfere with jamb or cause pinching hazard.

CAUTION: On narrow stile doors, be sure push bar base fits on the stile and bar does not interfere with the stop.



Handing of Doors

The handing of a door is determined from the outside of the opening.

Standing outside the door:

- If the hinges are on the right, it is a right hand door.
- If the hinges are on the left, it is a left hand door.
- If the door opens away from you, it is a regular bevel door.
- If the door opens toward you, it is a reverse bevel door.

