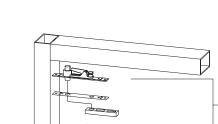
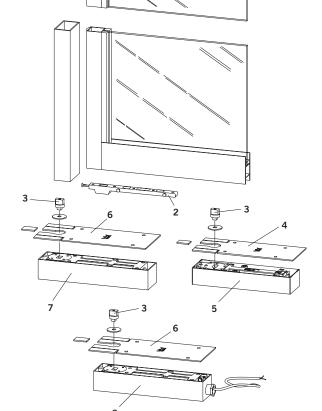




ALUMINUM DOOR & FRAME CENTER HUNG - DOUBLE OR SINGLE ACTING





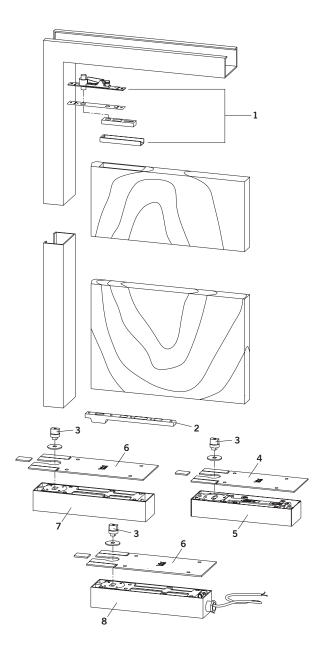
BTS 75V Packages				
Components	BTS 75V/A Center Hung, Double-Acting	BTS 75V/G Center Hung, Single-Acting		
1. Top Pivot	8062	8062		
2. Bottom Arm	7422	7422		
3. Spindle	74010	80010		
4. Cover Plate	7510	7510		
5. Closer and Cement Case	BTS 75V	BTS 75V		

BTS 80 Packages				
	BTS 80/A	BTS 80/G		
	Center Hung,	Center Hung,		
Components	Double-Acting	Single-Acting		
1. Top Pivot	8062	8062		
2. Bottom Arm	7422	7422		
3. Spindle	74010	80010		
6. Cover Plate	7410	7410		
7. Closer and Cement Case	BTS 80	BTS 80		

BTS 80 EMB Package			
Components	BTS 80 EMB/G Center Hung, Single-Acting		
1. Top Pivot	8062		
2. Bottom Arm	7422		
3. Spindle	80010		
6. Cover Plate	7410		
8. Closer and Cement Case	BTS 80 EMB		

Specify hand for G packages.

WOOD OR STEEL DOOR & FRAME CENTER HUNG - DOUBLE OR SINGLE ACTING



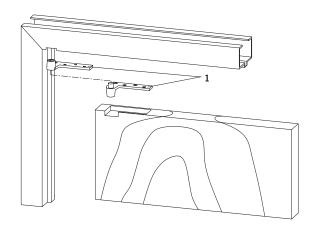
BTS 75V Packages				
Components	BTS 75V/B Center Hung, Double-Acting	BTS 75V/H Center Hung, Single-Acting		
1. Top Pivot	8062	8062		
2. Bottom Arm	7421	7421		
3. Spindle	74010	80010		
4. Cover Plate	7510	7510		
5. Closer and Cement Case	BTS 75V	BTS 75V		

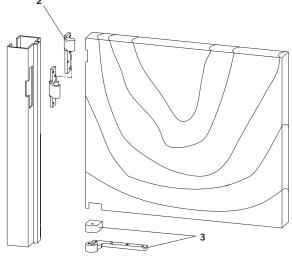
BTS 80 Packages				
Components	BTS 80/B Center Hung, Double-Acting	BTS 80/H Center Hung, Single-Acting		
1. Top Pivot	8062	8062		
2. Bottom Arm	7421	7421		
3. Spindle	74010	80010		
6. Cover Plate	7410	7410		
7. Closer and Cement Case	BTS 80	BTS 80		

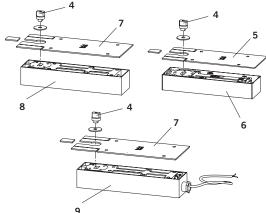
BTS 80 EMB Package			
Components	BTS 80 EMB/H Center Hung, Single-Acting		
1. Top Pivot	8062		
2. Bottom Arm	7421		
3. Spindle	80010		
6. Cover Plate	7410		
8. Closer and Cement Case	BTS 80 EMB		

Specify hand for H packages.

3/4" OFFSET HUNG - SINGLE ACTING







NFPA 80 requires that labeled fire doors up to 60" in height be provided with 2 pivots and an additional pivot for each 30" of door height or fraction thereof. The same recommendation applies to non-labeled doors. Distance between pivots may exceed 30" on non-labeled doors.

BTS 75V Packages			
Components	BTS 75V/D 3/4" Offset, Standard	BTS 75V/E 3/4" Offset, 20-Min Rated	BTS 75V/F 3/4" Offset, Up to 3-Hr Rated
1. Top Pivot	75120	75122	75133
2. Intermediate Pivot	75220 (optional)	75222 (required)	75233 (required)
3. Bottom Arm	75323	75323	75323
4. Spindle	74010	74010	74010
5. Cover Plate	7510	7510	7510

BTS 75V NHO BTS 75V NHO

6. Closer and

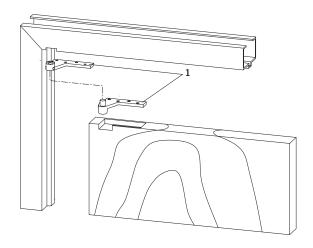
Cement Case BTS 75V

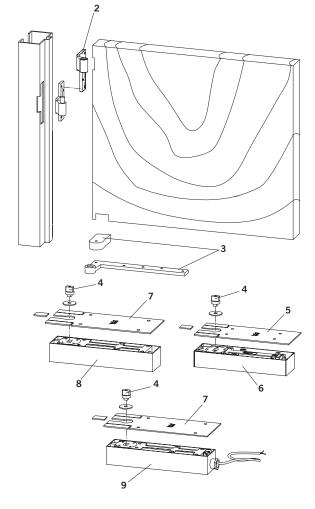
BTS 80 Packages			
Components	BTS 80/D 3/4" Offset, Standard	BTS 80/E 3/4" Offset, 20-Min Rated	BTS 80/F 3/4" Offset, Up to 3-Hr Rated
1. Top Pivot	75120	75122	75133
2. Intermediate Pivot	75220 (optional)	75222 (required)	75233 (required)
3. Bottom Arm	75323	75323	75323
4. Spindle	74010	74010	74010
7. Cover Plate	7410	7410	7410
8. Closer and Cement Case	BTS 80	BTS 80F NHO	BTS 80F NHO

BTS 80 EMB Packages			
Components	BTS 80 EMB/D 3/4" Offset, Standard	BTS 80 EMB/E 3/4" Offset, 20-Min Rated	BTS 80 EMB/F 3/4" Offset, Up to 3-Hr Rated
1. Top Pivot	75120	75122	75133
2. Intermediate Pivot	75220 (optional)	75222 (required)	75233 (required)
3. Bottom Arm	75323	75323	75323
4. Spindle	74010	74010	74010
7. Cover Plate	7410	7410	7410
9. Closer and Cement Case	BTS 80 EMB	BTS 80 EMB	BTS 80 EMB

Specify hand for D, E, and F packages.

1-1/2" OFFSET HUNG - SINGLE ACTING





It is recommended that doors up to 60" in height be provided with two pivots and an additional pivot for each 30" of door height or fraction thereof. Distance between pivots may exceed 30" on non-labeled doors.

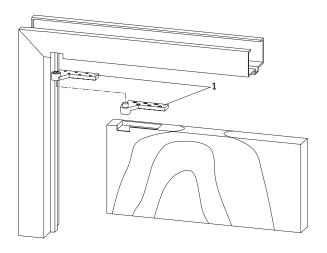
BTS 75V Packages			
Components	BTS 75V/C 1-1/2" Offset, Standard	BTS 75V/CE 1-1/2" Offset, 20-Min Rated	BTS 75V/CF 1-1/2" Offset, Up to 3-Hr Rated
1. Top Pivot	15120	15122	15133
2. Intermediate Pivot	15220 (optional)	15222 (required)	15233 (required)
3. Bottom Arm	15323	15323	15323
4. Spindle	74010	74010	74010
5. Cover Plate	7510	7510	7510
6. Closer and Cement Case	BTS 75V	BTS 75V NHO	BTS 75V NHO

BTS 80 Packages			
Components	BTS 80/C 1-1/2" Offset, Standard	BTS 80/CE 1-1/2" Offset, 20-Min Rated	BTS 80/CF 1-1/2" Offset, Up to 3-Hr Rated
1. Top Pivot	15120	15122	15133
2. Intermediate Pivot	15220 (optional)	15222 (required)	15233 (required)
3. Bottom Arm	15323	15323	15323
4. Spindle	74010	74010	74010
7. Cover Plate	7410	7410	7410
8. Closer and Cement Case	BTS 80	BTS 80F NHO	BTS 80F NHO

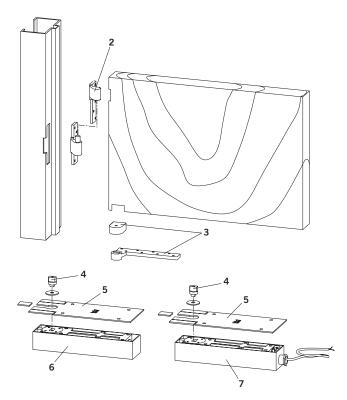
BTS 80 EMB Packages			
Components	BTS 80 EMB/C 1-1/2" Offset, Standard	BTS 80 EMB/CE 1-1/2" Offset, 20-Min Rated	BTS 80 EMB/CF 1-1/2" Offset, Up to 3-Hr Rated
1. Top Pivot	15120	15122	15133
2. Intermediate Pivot	15220 (optional)	15222 (required)	15233 (required)
3. Bottom Arm	15323	15323	15323
4. Spindle	74010	74010	74010
7. Cover Plate	7410	7410	7410
9. Closer and Cement Case	BTS 80 EMB	BTS 80 EMB	BTS 80 EMB

Specify hand for C, CE, and CF packages.

LEAD-LINED DOOR 3/4" OFFSET HUNG – SINGLE ACTING



BTS 80 Packages				
Components	BTS 80/L 3/4" Offset, Lead-Lined, Standard	BTS 80/LE 3/4" Offset, Lead-Lined, 20-Min Rated	BTS 80/LF 3/4" Offset, Lead-Lined, Up to 3-Hr Rated	
1. Top Pivot	75140	75142	75143	
2. Intermediate Pivot	75240 (optional)	75242 (required)	75243 (required)	
3. Bottom Arm	75343	75343	75343	
4. Spindle	74010	74010	74010	
5. Cover Plate	7410	7410	7410	
6. Closer and Cement Case	BTS 80	BTS 80F NHO	BTS 80F NHO	



BTS 80 EMB Packages				
Components	BTS 80 EMB/L 3/4" Offset, Lead-Lined, Standard	BTS 80 EMB/LE 3/4" Offset, Lead-Lined, 20-Min Rated	BTS 80 EMB/LF 3/4" Offset, Lead-Lined, Up to 3-Hr Rated	
1. Top Pivot	75140	75142	75143	
2. Intermediate Pivot	75240 (optional)	75242 (required)	75243 (required)	
3. Bottom Arm	75343	75343	75343	
4. Spindle	74010	74010	74010	
5. Cover Plate	7410	7410	7410	
7. Closer and Cement Case	BTS 80 EMB	BTS 80 EMB	BTS 80 EMB	

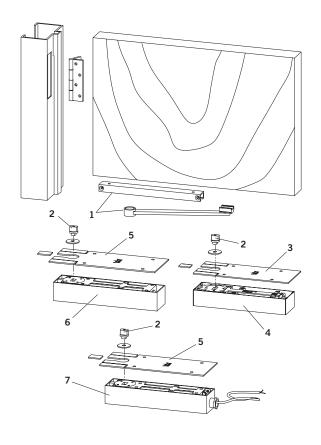
It is recommended that doors up to 60" in height shall be provided with two pivots and an additional pivot for each 30" of door height or fraction thereof. Distance between pivots may exceed 30" on non-labeled doors.

Specify hand for L, LE, and LF packages.

INDEPENDENTLY HUNG DOORS

Packages have been developed for use with 4-1/2" wide butt hinges. Applications using alternate hanging means should be submitted to DORMA's Technical Services Department for review and recommendation.

Hinges



BTS 75V Packages				
	BTS 75V/I	BTS 75V/IF 3-Hr Rated Steel, 1-1/2-Hr Rated		
Components	Standard	Wood		
1. Slide Arm				
Assembly	7451N	7451N		
2. Spindle	74003	74003		
3. Cover Plate	7510	7510		
4. Closer and				
Cement Case	BTS 75V	BTS 75V NHO		

BTS 80 Packages				
Components	BTS 80/I Standard	BTS 80/IF 3-Hr Rated Steel, 1-1/2-Hr Rated Wood		
1. Slide Arm				
Assembly	7451N	7451N		
2. Spindle	74003	74003		
5. Cover Plate	7410	7410		
6. Closer and				
Cement Case	BTS 80	BTS 80F NHO		

BTS 80 EMB Packages				
Components	BTS 80 EMB/I Standard	BTS 80 EMB/IF 3-Hr Rated Steel, 1-1/2-Hr Rated Wood		
1. Slide Arm Assembly	7451N	7451N		
2. Spindle	74003	74003		
5. Cover Plate	7410	7410		
7. Closer and Cement Case	BTS 80 EMB	BTS 80 EMB		

- I packages mortise the track in the bottom of the door.
- I packages can be installed on the push or pull side of an opening.
- IF packages surface apply the track to the face of the door.

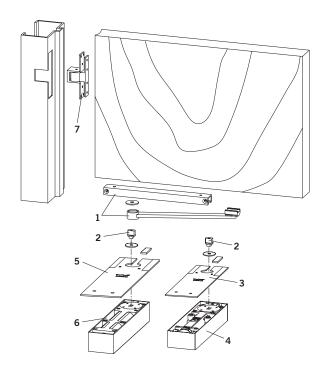
Specify hand for EMB/I and EMB/IF packages.

INDEPENDENTLY HUNG DOORS

Packages have been developed for use with pocket pivots.

Applications using alternate hanging means should be submitted to DORMA's Technical Services Department for review and recommendation.

Pocket Pivots



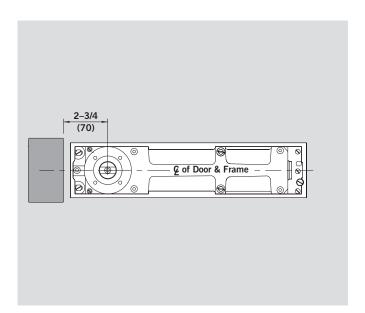
BTS 75V Packages				
Components	BTS 75V/P Standard	BTS 75V/PF 3-Hr Rated Steel, 20-Min Rated Wood		
1. Slide Arm Assembly	7451N	7451N		
2. Spindle	74003	74003		
3. Cover Plate	7510	7510		
4. Closer and Cement Case	BTS 75V	BTS 75V NHO		
7. Pocket Pivot	75520	75523		

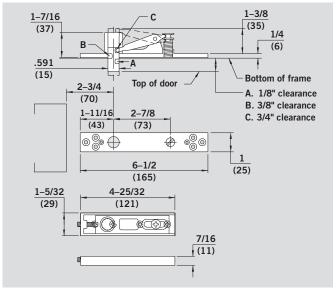
BTS 80 Packages				
Components	BTS 80/P Standard	BTS 80/PF 3-Hr Rated Steel, 20-Min Rated Wood		
1. Slide Arm Assembly	7451N	7451N		
2. Spindle	74003	74003		
5. Cover Plate	7410	7410		
6. Closer and Cement Case	BTS 80	BTS 80F NHO		
7. Pocket Pivot	75520	75523		

- P packages mortise the track in the bottom of the door.
- PF packages surface apply the track to the face of the door.
- P and PF packages have three pocket pivots for doors up to 7'-6" tall. Taller doors should use an additional pivot for every 30" of door height or fraction thereof.

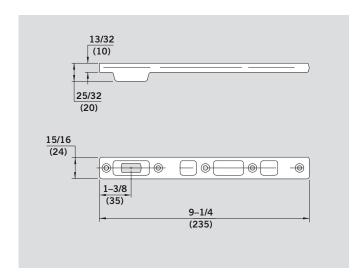
Specify hand for P and PF packages.

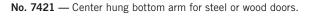
ACCESSORIES FOR CENTER HUNG INSTALLATIONS

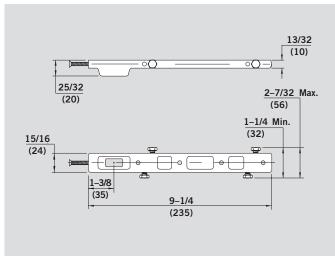




No. 8062 — Walking beam top pivot with cover plate. Adjustable to obtain top door clearances of 1/8", 3/8" or 3/4". Optional extended pin available for clearances of 3/4", 1" or 1-5/16".

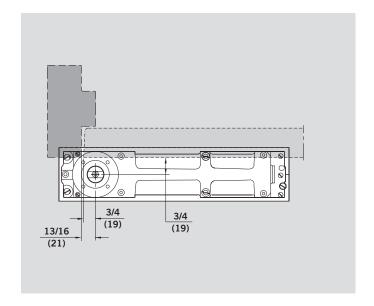


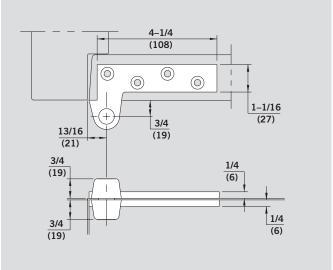




No. 7422 — Center hung bottom arm for aluminum doors.

ACCESSORIES FOR 3/4" OFFSET INSTALLATIONS

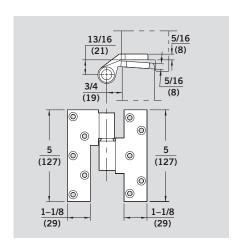




No. 75120 — 3/4" offset brass top pivot.

No. 75122 — 3/4" offset brass top pivot. U.L. listed for 20-minute rated fire doors.

No. 75133 — 3/4" offset steel top pivot. For use on fire doors rated up to three hours.

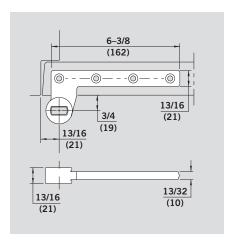


No. 75220 — 3/4" offset standard-duty brass intermediate pivot.

No. 75222 — 3/4" offset standard-duty brass intermediate pivot. U.L. listed for 20-minute rated fire doors.

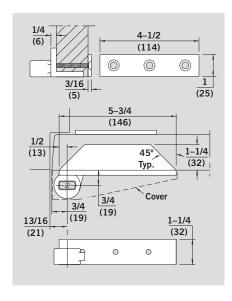
No. 75233 — 3/4" offset heavy-duty steel intermediate pivot. For use on fire doors rated up to three hours.

(Specify Hand)



No. 75323 — 3/4" offset standard-duty steel bottom arm. Can also be used on fire doors rated up to three hours.

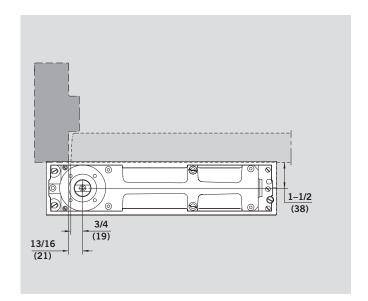
(Specify Hand)

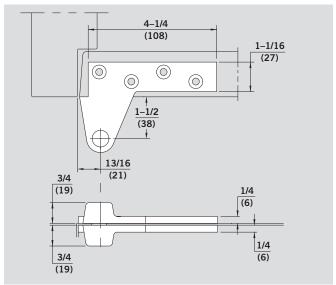


No. 75353 — 3/4" offset steel bottom arm. Closer is removable without removing door. Intermediate pivots are required when using this arm.

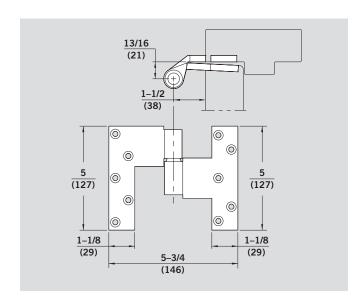
(Specify Hand)

ACCESSORIES FOR 1-1/2" OFFSET INSTALLATIONS

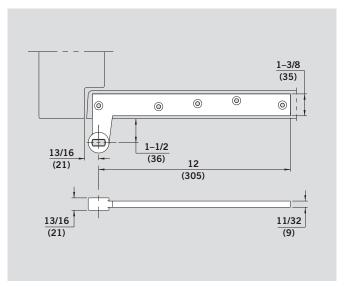




No. 15120 — 1-1/2" offset brass top pivot.

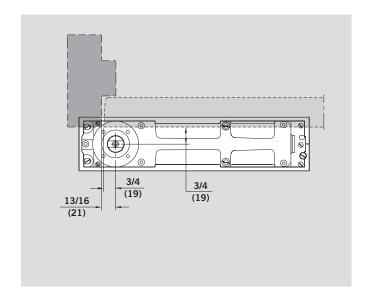


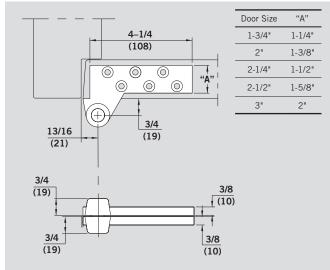
No. 15220 — 1-1/2" offset brass intermediate pivot. (Specify Hand)



No. 15323 — 1-1/2" offset steel bottom arm. (Specify Hand)

ACCESSORIES FOR 3/4" OFFSET LEAD-LINED INSTALLATIONS





No. **75140** — 3/4" offset brass top pivot for lead-lined doors 1-3/4" thick.

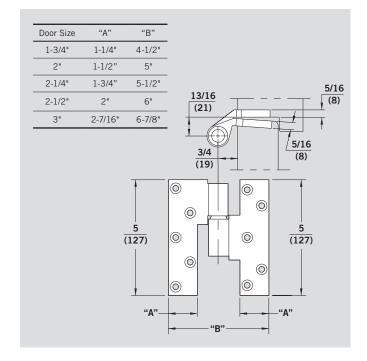
Note: For doors 2" to 3" thick specify as follows:

No. 75140-2 — For use on doors 2" thick.

No. 75140-2-1/4 — For use on doors 2-1/4" thick.

No. 75140-2-1/2 — For use on doors 2-1/2" thick.

No. 75140-3 — For use on doors 3" thick.



No. 75240 — 3/4" offset brass intermediate pivot for lead-lined doors 1-3/4" thick.

Note: For doors 2" to 3" thick specify as follows:

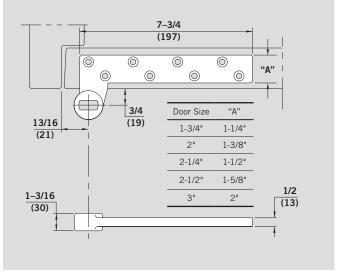
No. 75240-2 — For use on doors 2" thick.

No. 75240-2-1/4 — For use on doors 2-1/4" thick.

No. 75240-2-1/2 — For use on doors 2-1/2" thick.

No. 75240-3 — For use on doors 3" thick.

(Specify Hand)



No. 75343 — 3/4" offset steel bottom arm for lead-lined 1-3/4" doors.

Note: For doors 2" to 3" thick specify as follows:

No. 75343-2 — For use on doors 2" thick.

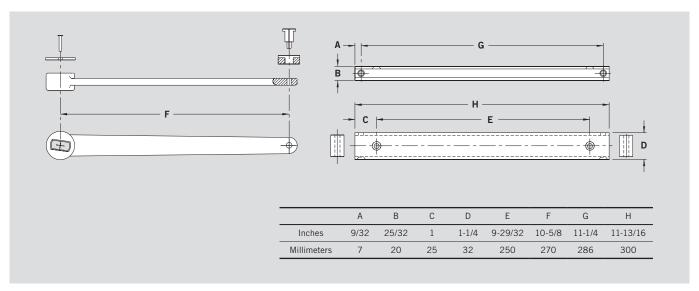
No. 75343-2-1/4 — For use on doors 2-1/4" thick.

No. 75343-2-1/2 — For use on doors 2-1/2" thick.

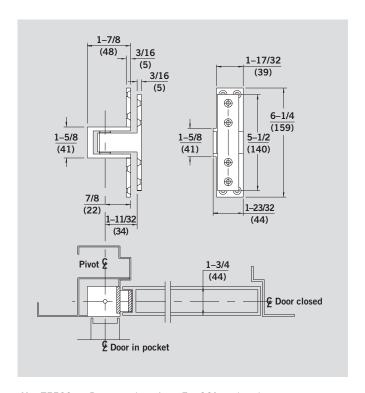
No. 75343-3 — For use on doors 3" thick.

(Specify Hand)

ACCESSORIES FOR INDEPENDENTLY HUNG INSTALLATIONS



No. 7451N Slide Arm and Channel — Drop forged steel with nylon slide block, cover washer, and anodized aluminum channel.



No. 75520 — Brass pocket pivot. For 90° pocket doors.

No. 75523 — Steel pocket pivot for 90° pocket doors.

 $\mbox{U.L.}$ listed for 20 minute wood doors and 3 hour rated steel fire doors.

(Specify Hand)

ACCESSORIES

Terrazzo Pan

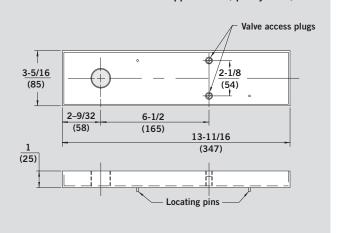
BTS 75V Series • TP 75V CH for center hung applications (shown). • TP 75V RH or LH for 3/4" offset applications (specify hand). Valve access plugs 3-1/8 (79) 2-1/8 3-13/16 (97) (54) 2-7/32 2-13/16 (56) (71) 11-15/32 (291) (25)

Made from stainless steel and used in lieu of standard floor plate. Offers uninterrupted appearance with terrazzo or marble. Shims are included to allow easy removal of pan after initial installation.

Locating pins

BTS 80/BTS 80 EMB Series

- TP 80 CH for center hung applications (shown).
- TP 80 RH or LH for 3/4" offset applications (specify hand).

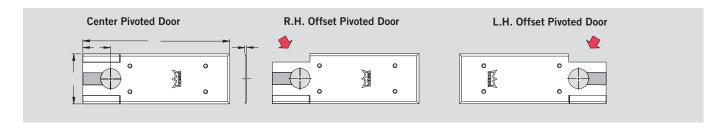


Note: When calculating the spindle size to be used with a terrazzo pan application, add 1" to the desired clearance between the door and the finished floor.

Cover Plate

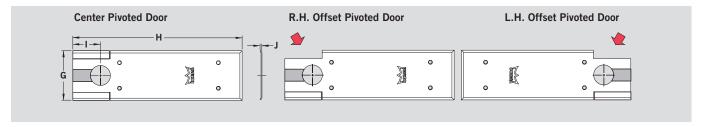
The BTS 75V universal cover plate **7510**, suitable for left hand/right hand, 3/4" offset, 1-1/2" offset, and center pivoted doors.

	G	Н	I	J
Inches	4-1/8	12-1/8	2-9/32	3/32
Millimeters	105	308	58	2



The BTS 80 and BTS 80 EMB universal cover plate 7410, suitable for left hand/right hand, 3/4" offset, 1-1/2" offset, and center pivoted doors.

	G	Н	I	J
Inches	4-1/8	14-3/32	2-9/32	3/32
Millimeters	105	358	58	2

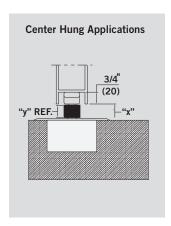


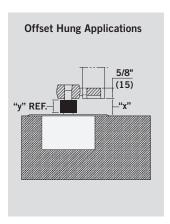
Spindles

Spindle No.	Dimension "x" (Door Clearance)	3" Pre-load Spindle No.	Dimension "y"
74003	5/16"	80003	1/8"
74005	1/2"	80005	5/16"
74007	5/8"	-	7/16"
74010 ((STD)	3/4"	80010	1/2"
74012	13/16"	-	5/8"
74015	7/8"	80015	11/16"
74020	1-1/8"	80020	7/8"
74025	1-5/16"	80025	1"
74030	1-1/2"	80030	1-5/16"
74035	1-11/16"	-	1-1/2"
74040	1-7/8"	-	1-11/16"
74045	2-1/16"	-	1-7/8"
74050	2-5/16"	-	2-1/16"

Extended Spindle Insert NOTE: Closer and arm must be installed per template for door clearances shown to be valid.

Closers with extended spindle inserts are used with thresholds, carpeted floors, terrazzo pans or in cases where more clearance between door and floor is required. All spindles are zinc plated.





Pre-load Spindles

Spindles are available with a 3° pre-load for additional pressure to hold door in the closed position. Normally, this is only necessary for center-pivoted single acting applications. However, they can also be used with other applications to compensate for templating errors. Specify hand of pre-load spindle when ordering.



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