

TS93

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Surface Applied Door Closers



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DORMA USA quality and environmental management systems in Reamstown, PA and Steeleville, IL are certified to ISO 9001:2008 and ISO 14001:2004.



THE TS93 SYSTEM IN CONTUR DESIGN

Representing the pinnacle of surface applied closers with its unique cam and roller design.

Doors equipped with the TS93 will open much easier than doors with rack and pinion closers with track arms. The TS93 is a closer with regular arm operating efficiency and track arm aesthetics. When necessary, push side installation provides the benefits of track arm assemblies with the closer mounted to the door and the track mounted to the stop, creating a more tamper-resistant application.

Technical Details

- Available as TS9315 closers for interior and exterior barrier-free requirements (adjustable size 1–5).
- Available as TS9356 closers for greater closing force for exceptionally wide, tall, or heavy doors (size 5–6 +50% adjustment).
- Adjustable backcheck prevents uncontrolled opening of door.
- Adjustable delayed action extends the closing cycle to allow unobstructed passage through opening.
- Optional hold open, adjustable for degree of hold open and hold open force. Hold open is selectable on or off.
- SN3 sex nuts supplied standard for 1-3/4" thick door.

- Optional (CS) cushion limit stay for standard (T/PT) applications to assist slowing door in opening cycle (auxiliary stop required by others).

Certification

- The DORMA TS9315/TS9356 Series are listed by UL and CUL under their continuing reinspection programs.
- The TS9315/TS9356 Series are certified to the requirements of ANSI/ BHMA A156.4 Grade 1.
- The TS93 is UL 10C listed for positive pressure.
- The TS9315 meets the requirements of ANSI/ BHMA A117.1 and ADA for barrier-free accessibility.
- California State Fire Marshall Approved (CSFM).



Specification

The TS93 System in Contur Design hydraulic surface applied closer with steel cam, roller, and adjustable spring, incorporating a track arm assembly. The TS93 will have two separate temperature compensating, noncritical adjustment valves to control sweep and latch closing speeds. Adjustable backcheck will take effect at approximately 65°. Adjustable hydraulic delayed action will be effective from approximately 120° to

approximately 70°. The TS9315 will be available with field-adjustable spring power from size 1 to 5 for barrier-free requirements. The TS9356 will be adjustable from size 5 to 6 with 50% adjustment. Maximum opening range will be approximately 175° for (T) and 110° for (ST) pull side installations and 110° for (PT/ SPT) push side installations. Install the TS93 closer body on the door and the track arm assembly on the stop surface with the supplied bracket for push side (PT) applications. The TS93 will be non-handed.

Optional Specifications

All TS93 closers to have hold open, adjustable for degree of hold open and hold open force. All TS93 closers to have optional heavy-duty spring stop track arms to assist stopping the door in the opening cycle. Degree of stop to be field selectable.

Warranty

For details, refer to **DORMA Limited Warranty** on our website at go.dorma.com/terms.

Finish

Standard Sprayed Finishes

- Aluminum: 689
- Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic)
- Gold: 696 (Satin)
- Black: 693
- Primed: 600

Optional DORMA Custom Color or Designer Color Finishes
Contact Customer Service.

Optional Plated/ Architectural Finishes

- Brass: 605 (Bright)
- Stainless Steel: 630 (Satin)

NOTE: Closer cover, arm, and track channel are plated. Cover end caps and track end caps are painted complementary or contrasting color.

REDUCED OPENING FORCE INSTALLATIONS CAUTION

Manual door closers, including closers certified to meet ANSI/ BHMA A156.4, when installed and adjusted to conform to ADA or other reduced opening force requirements, may not provide sufficient power to reliably close and latch a door.

Refer to ED900 Low Energy Operator brochure to meet reduced opening force requirements without affecting closing power.

Feature	TS9315 T/TH	TS9356 T/TH	TS9315 ST/STH	TS9356 ST/STH	TS9315 PT/PTH	TS9356 PT/PTH	TS9315 SPT	TS9356 SPT
Adjustable spring size	1–5	5–6 +50%	1–5	5–6 +50%	1–5	5–6 +50%	1–5	5–6 +50%
Pull side application	•	•	•	•	-	-	-	-
Push side application	-	-	-	-	•	•	•	•
Controlled closing with two adjustable valves	175°–0° 7°–0°	175°–0° 7°–0°	110°–0° 7°–0°	110°–0° 7°–0°	110°–0° 7°–0°	110°–0° 7°–0°	110°–0° 7°–0°	110°–0° 7°–0°
Hydraulic backcheck	•	•	•	•	•	•	•	•
Hydraulic delayed action	•	•	•	•	•	•	•	•
Hold open	◦ (TH)	◦ (TH)	•	•	◦ (PTH)	◦ (PTH)	-	-
Dead stop	-	-	◦ (ST)	◦ (ST)	-	-	•	•
Dead stop with hold open	-	-	◦ (STH)	◦ (STH)	-	-	-	-

• yes - no ◦ option



ADDITIONAL MODELS



TS93 EMF



TS93 EMR



TS93 GSR

Fire/Life Safety

Compatible with new or existing fire/smoke control systems, the **EMR** model features a photoelectric detector and electromagnetic hold/release device.

The **EMF** model is an electromagnetic hold/release device only. See EMR/EMF brochure for more information.

Coordinating Pairs of Doors

The **TS93 GSR** models allow for the proper sequencing of pairs of doors equipped with astragals or exit devices, all housed within one device. See GSR brochure for more information.

HOW TO ORDER TS93 SERIES

Arm Type

171°-180° Pocket Mount —

120°-170° Pocket Mount —

90°-119° Pocket Mount —

90° Pocket Mount —

Spring Stop Track Hold Open (Pull) —

Push Side Track Hold —

Pull Side Track Hold —

Spring Stop Track (Push) —

Spring Stop Track (Pull) —

Push Side Track —

Pull Side Track —

TPKT180

TPKT170

TPKT119

TPKT90

STH

PTH

TH

SPT

ST

PT

T

Painted

PNT

696

695

693

691

690

689

600

Special Sprayed Finish (must specify)

Gold

Dark Duranodic Bronze

Black

Dull Bronze

Statuary Bronze

Aluminum

Primed

Fastener Pack

SN4

SN3

Sex Nuts for 1-3/4" Door

Sex Nuts for 1-3/8" Door

TS93

15

T

SN3

689

TS93

15

56

CS*

605

630

Model

Size 1-5

Size 5-6

Cushion Stop

Options

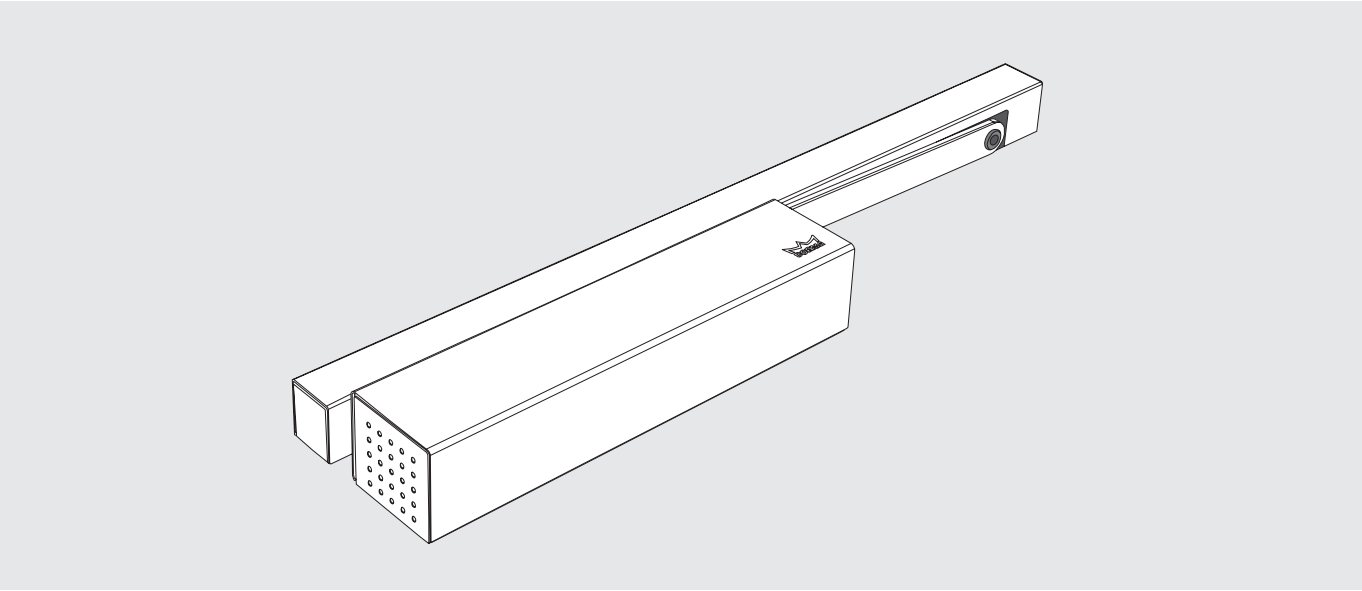
Architectural

Plated

Bright Brass

Satin Stainless

*Available for use with T, TH, PT, PTH arms only.

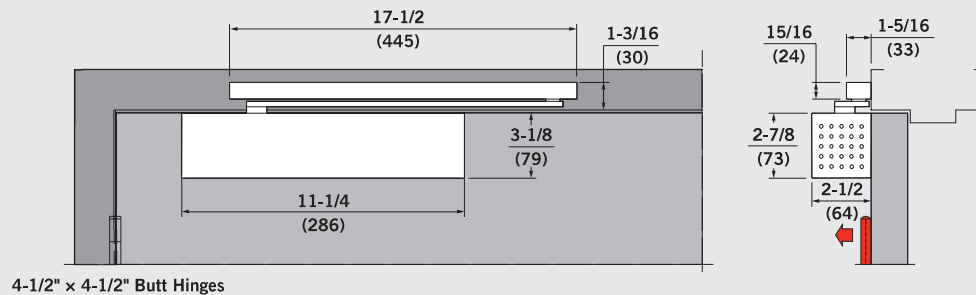


TRACK INSTALLATION × JAMB MOUNTED SLIDE TRACK ARM

TS9315 T
TS9315 TH



TS9356 T
TS9356 TH



4-1/2" × 4-1/2" Butt Hinges

Size Selection Chart

Closer	Interior/ Exterior	Door Width						
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	Interior	•	•	♿	♿	♿	N/A	N/A
TS9356	Interior	N/A	N/A	N/A	N/A	•	•	•

Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Minimum Hold Open	Maximum Hold Open	Minimum Door Width
175°	65°–175°	120°–70°	50°	140°	24"

- Recommended application.
- ♿ Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A Not applicable/application not recommended

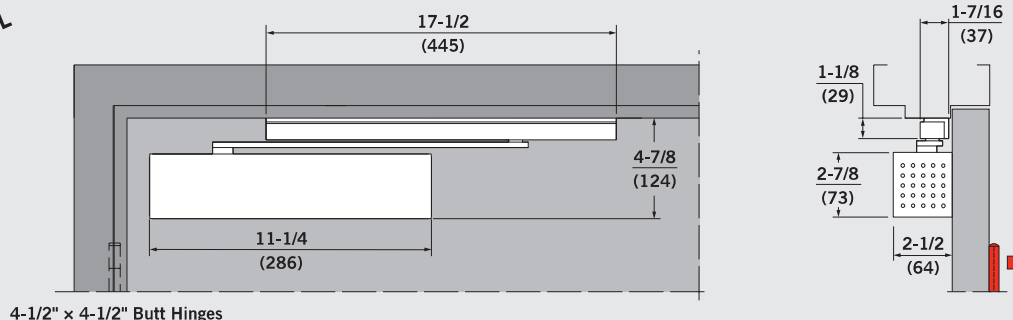
NOTE: Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

TRACK INSTALLATION × STOP MOUNTED SLIDE TRACK ARM

TS9315 PT
TS9315 PTH



TS9356 PT
TS9356 PTH



4-1/2" × 4-1/2" Butt Hinges

Size Selection Chart

		Door Width					
Closer	Interior/ Exterior	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	Interior	•	♿	♿	♿	N/A	N/A
	Exterior	•	•	•	•	N/A	N/A
TS9356	Interior	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	•	•	•	n/A

Closer	Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Minimum Hold Open	Maximum Hold Open	Minimum Door Width
TS9315	110°	65°–110°	110°–70°	55°	105°	26"
TS9356	110°	65°–110°	110°–70°	55°	105°	26"

- Recommended application.
- ♿ Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A Not applicable/application not recommended

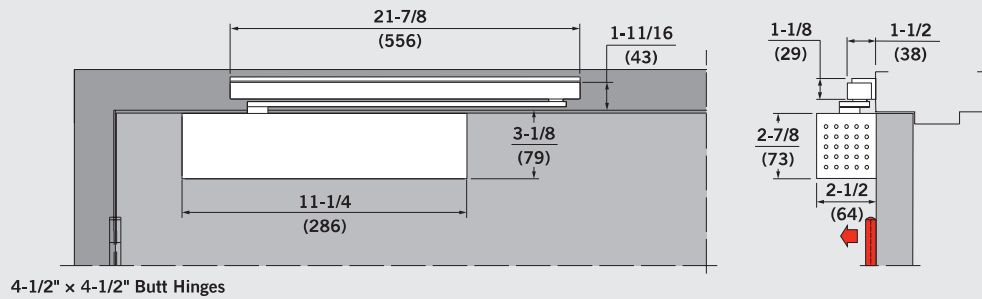
NOTE: Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

TRACK INSTALLATION × JAMB MOUNTED SLIDE TRACK ARM

TS9315 ST



TS9356 ST

(Hold open
not available)

4-1/2" × 4-1/2" Butt Hinges

Size Selection Chart

Closer	Interior/ Exterior	Door Width				
		3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	Interior	•	•	•	N/A	N/A
TS9356	Interior	N/A	N/A	•	•	•

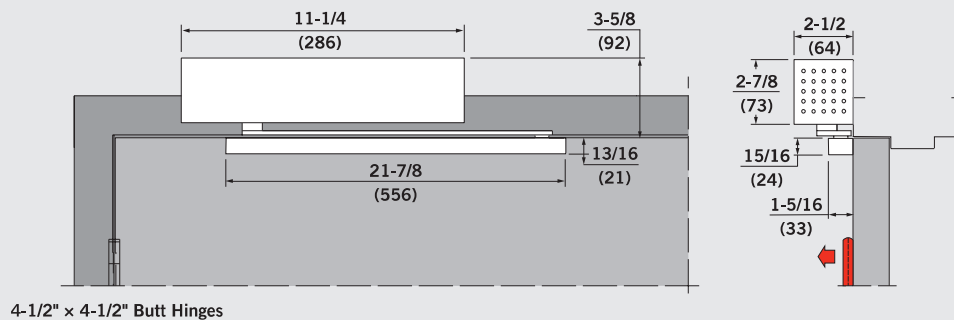
Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Minimum Hold Open	Maximum Hold Open	Minimum Door Width
110°	65°–110°	110°–70°	85°	110°	36"

- Recommended application.
- Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A Not applicable/application not recommended

NOTE: Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

TRACK INSTALLATION × DOOR MOUNTED SLIDE TRACK ARM

TS9315 STH



4-1/2" × 4-1/2" Butt Hinges

Size Selection Chart

Closer	Interior/ Exterior	Door Width		
		3'-0" max.	3'-6" max.	4'-0" max.
TS9315	Interior	•	•	•

Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Minimum Hold Open	Maximum Hold Open	Minimum Door Width
110°	65°–110°	110°–70°	80°	105°	36"

- Recommended application.
- Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A Not applicable/application not recommended

NOTE: Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

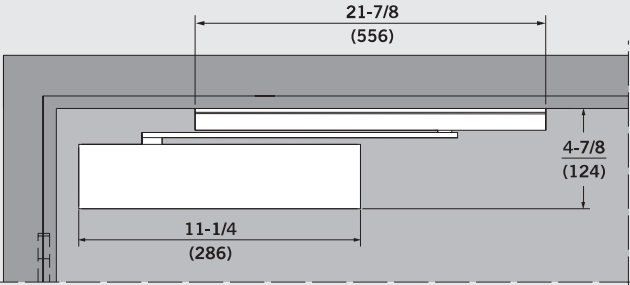
TRACK INSTALLATION × STOP MOUNTED SLIDE TRACK ARM

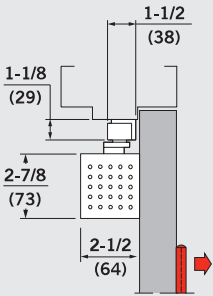
TS9315 SPT



TS9356 SPT

(Hold open not available)





Size Selection Chart

		Door Width				
Closer	Interior/ Exterior	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	Interior				N/A	N/A
	Exterior	•	•	•	N/A	N/A
TS9356	Interior	N/A	N/A	•	•	•
	Exterior	N/A	•	•	•	n/A

Closer	Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Minimum Hold Open	Maximum Hold Open	Minimum Door Width
TS9315	110°	65°–110°	110°–70°	85°	110°	42"

•

Recommended application.



Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.

N/A

Not applicable/application not recommended

NOTE:

Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

TS93 PKT POCKET DOOR CLOSERS

Applications accommodate opening angles ranging from 90°–180° while providing concealed hardware for doors that must be flush with the wall.

Technical Details (Pocket Doors)

- Available as TS9356 (size 5–6 +50% adjustment) closers for greater closing force for wider doors.
- Hardware is concealed when door is in pocket.
- Door surface is flush with corridor wall.
- No protruding edges.
- No dirt or debris buildup behind door.
- Open door fits completely into matched recessed wall pocket.
- Only 90° applications use pocket pivots.

Certification

The PKT applications are listed by U.L. under their continuing reinspection programs. DORMA PKT U.L. listings apply when used on doors that meet the specified door width and maximum weight.

Pocket Door

Application Disclaimer

DORMA designs pocket door applications to be electronically held open under normal conditions. In the event of an alarm condition, the electric hold open will release—the door will close and latch under the power of the door closer. Meeting the fire life-safety code, Closing and Latching the Door, is the priority for DORMA's pocket door application and supersedes all accessibility requirements of A117.1. If low opening force is the priority for the application, an alternative door closer product should be considered in place of a pocket door application.

Specification

DORMA pocket door closers for doors required to be flush with the corridor wall. The pocket door closers offer applications for 90°–180° opening angles. All pocket door closers combined with a DORMA EM Series wall magnet create a held open flush

door until power is interrupted or the door is manually shut. The recommended method for hanging a 90° pocket door is by the use of 3 (each) DORMA pocket pivots 75520 for non-rated doors or 3 (each) 75523 for 20 minute or 3-hour rated fire doors. For doors beyond 90° up to 180°, 4-1/2" × 4-1/2" ball bearing butt hinges are recommended.

Finishes

Standard Sprayed Finishes

- Aluminum: 689
- Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic)
- Gold: 696
- Black: 693

Optional Plated Finishes

- Brass: 605 (Bright)
- Stainless: 630 (Satin)

NOTE: Closer cover, arm and track channel are plated. Cover end caps and track end caps are sprayed complementary or contrasting color.

Optional DORMA Custom Color or Designer Color Finishes
Contact Customer Service.

EM Series Wall Magnets

DORMA EM Series



electromagnetic door holders are available with dual voltage

capability and an adjustable catch plate, providing versatility for varying applications. Add-on catch plate extensions further enhance its flexibility. they release easily, even in applications meeting ADA requirements with minimal spring force closers. See EM Series brochure for details.

Warranty

For details, refer to **DORMA Limited Warranty** on our website at go.dorma.com/terms.

Feature	TS9356 PKT 90	TS9356 PKT 90/119 OP	TS9356 PKT 120/170	TS9356 PKT 180
Adjustable spring size	5–6 +50%	5–6 +50%	5–6 +50%	5–6 +50%
Pull side application	•	•	•	•
Controlled closing with two adjustable valves	90°–0° 7°–0°	119°–0° 7°–0°	170°–0° 7°–0°	180°–0° 7°–0°
Hydraulic backcheck	•	•	•	•
Hydraulic delayed action	•	•	•	•

- yes

90° POCKET INSTALLATION

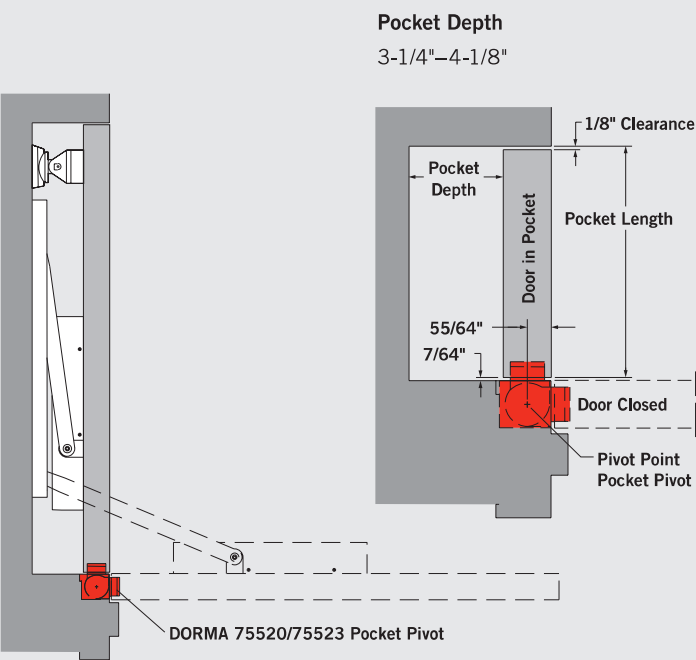
TS9356 PKT 90

Size Selection Chart

Closer	Door Width Range	Maximum Weight
TS9356 PKT 90	3'-1" to 4'-6"	250 lb

The use of pocket pivots is recommended for hanging a 90° pocket door. Pocket pivots create optimum unobstructed space while creating a flush appearance for the door and frame.

NOTE: The DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, the EM-505 x ER-1.5 has a 4" (102 mm) projection, the EM-508 has a 4-1/16" (103 mm) projection, and the EM-509 x ER-1.5 extension has a 3-5/16" (84 mm) projection. For pocket depths not equalling these projections, a shim by others is required for the door mounted catch plate.



90° THROUGH 119° POCKET INSTALLATION

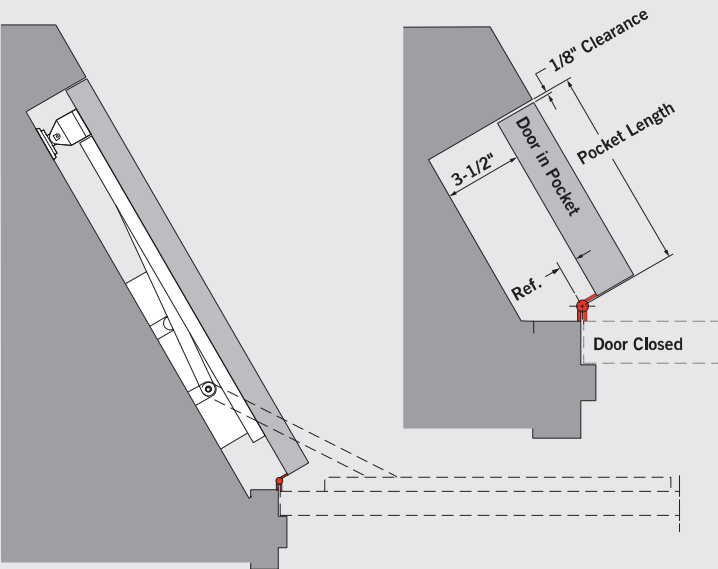
TS9356 PKT 90/119 OP

Size Selection Chart

Closer	Door Width Range	Maximum Weight
TS9356 PKT 90/119 OP	2'-8" to 4"	150 lb

The use of hinges is recommended for hanging the door. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.

NOTE: The recommended DORMA EM 504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.



120° THROUGH 170° POCKET INSTALLATION

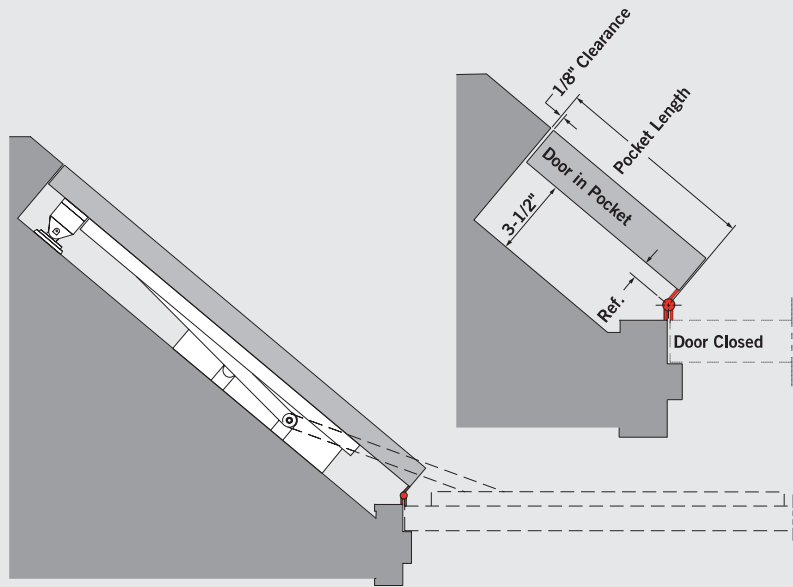
TS9356 PKT 120/170

Size Selection Chart

Closer	Door Width Range	Maximum Weight
TS9356 PKT 120/170	2'-8" to 4'	150 lb

The use of hinges is recommended for hanging the door. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.

NOTE: The recommended DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.



180° POCKET INSTALLATION

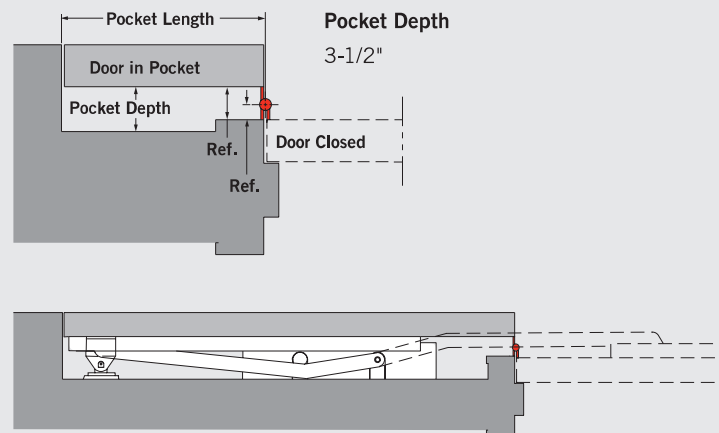
TS9356 PKT 180

Size Selection Chart

Closer	Door Width Range	Maximum Weight
TS9356 PKT 180	2'-8" to 4"	150 lb

The use of hinges is recommended for hanging the door. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.

NOTE: The recommended DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.





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