

Surface Applied Door Closers

DORMA TS93

The TS93 Series represents the pinnacle of surface applied closers because of 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 TS93-1 closers for interior and exterior barrier-free requirements (adjustable size 1–5).
- Available as TS93-5 closers for greater closing force for exceptionally wide, tall, or heavy doors (size 5–6 +50% adjustment).
- Adjustable backcheck prevents uncontrolled opening of the door.
- Adjustable delayed action extends the closing cycle to allow unobstructed passage through opening.
- Optional hold open inserts into track. Adjustable for degree of hold open and hold open force. Hold open is selectable on or off.

Certification:

The DORMA TS93-1/TS93-5 Series are listed by U.L. and C.U.L. under their continuing reinspection programs. The TS93-1/TS93-5 Series are certified to the requirements of ANSI A156.4 Grade 1. The TS93 is compliant with UL10C and UBC 7.2 (1997) for positive pressure. The TS93-1 versions meet the requirements of ANSI A117.1 and A.D.A. for barrier-free accessibility. California State Fire Marshall Approved (CSFM).

Specification:

The TS93 Series 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 TS93-1 will be available with field-adjustable spring power from size 1 to 5 for barrier-free requirements. The TS93-5 will be adjustable from size 5 to 6 with 50% adjustment. Maximum opening range will be approximately 175° for pull side installations and 110° for 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 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.



Warranty: 25 years.

Finishes:

Standard Sprayed Finishes:

Aluminum: 689.

Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).

Gold: 696. Black: 693.

Optional Special Color Sprayed Finishes: Specify code

number or submit 3 color chip samples.

Optional Plated Finishes:

Brass: 605 (Bright) or 606 (Satin).
Bronze: 611 (Bright), 612 (Satin), or 613
(Oxidized Satin Bronze Oil Rubbed).

Nickel: 618 (Bright) or 619 (Satin). Chrome: 625 (Bright) or 626 (Satin).

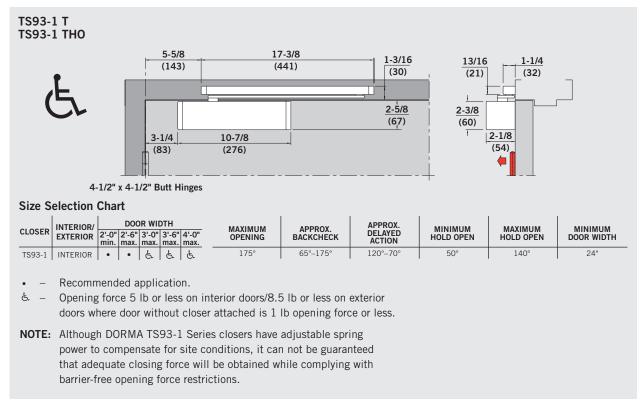
Closer cover, arm, and track channel are plated. Cover end caps and track end caps are sprayed complementary or contrasting color.

Features	TS93-1 T	TS93-5 T	TS93-1 PT	TS93-5 PT
Adjustable spring size	1–5	5-6+50%	1–5	5-6+50%
Push side application	-	-	•	•
Pull side application	•	•	-	-
Controlled closing with two adjustment valves	175°-0° 7°-0°	175°-0° 7°-0°	110°-0° 7°-0°	110°-0° 7°-0°
Hydraulic backcheck	•	•	•	•
Hydraulic delayed action	•	•	•	•
Hold open mechanism (inserts into track)	0	0	0	0

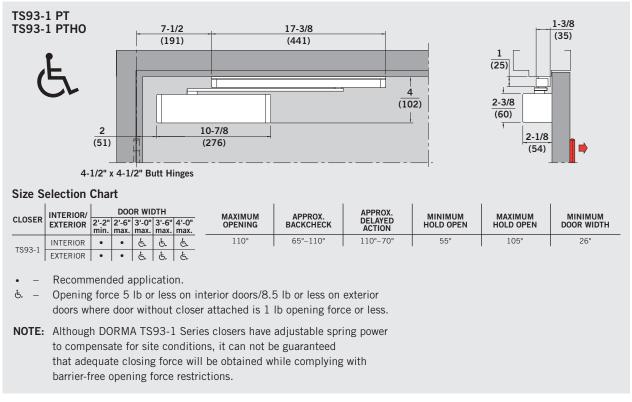
yes - no ○ option



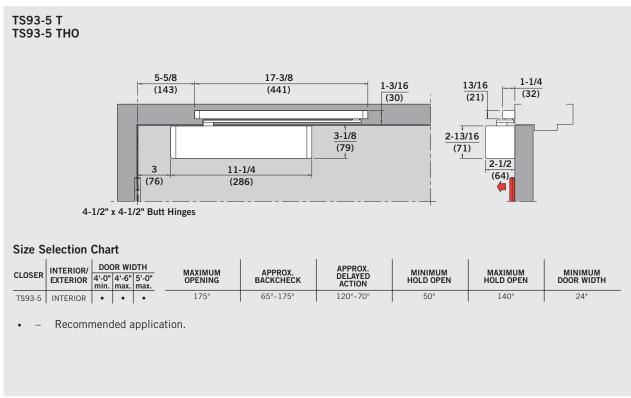
Track Installation x Jamb Mounted Slide Track Arm



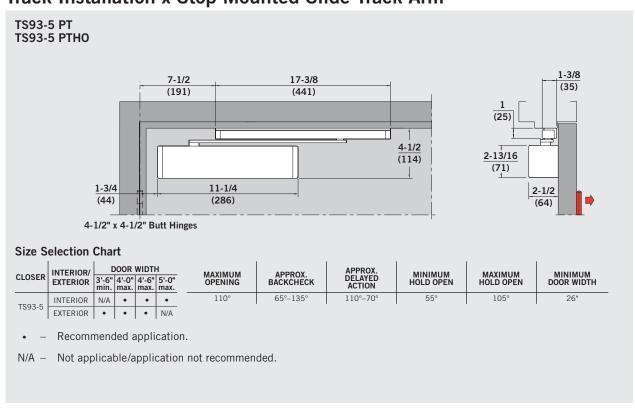
Track Installation x Stop Mounted Slide Track Arm



Track Installation x Jamb Mounted Slide Track Arm



Track Installation x Stop Mounted Slide Track Arm





The TS93 PKT pocket door 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 TS93-1 (size 1–5 adjustment) and TS93-5 (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.

Specification:

DORMA pocket door closers for doors required to be flush with the corridor wall. The pocket door closers offer applications for $90^\circ\text{--}180^\circ$ 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 via the use of DORMA pocket pivots 75520 or 75523 (fire rated). Doors beyond 90° up to 180° 4-1/2" x 4-1/2" ball bearing butt hinges are recommended.

Warranty: 25 years.

Finishes:

Standard Sprayed Finishes:

Aluminum: 689.

Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).

Gold: 696. Black: 693.

Optional Special Color Sprayed Finishes: Specify code

number or submit 3 color chip samples.

Optional Plated Finishes:

Brass: 605 (Bright) or 606 (Satin).
Bronze: 611 (Bright), 612 (Satin), or 613 (Oxidized Satin Bronze Oil Rubbed).

Nickel: 618 (Bright) or 619 (Satin). Chrome: 625 (Bright) or 626 (Satin).

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



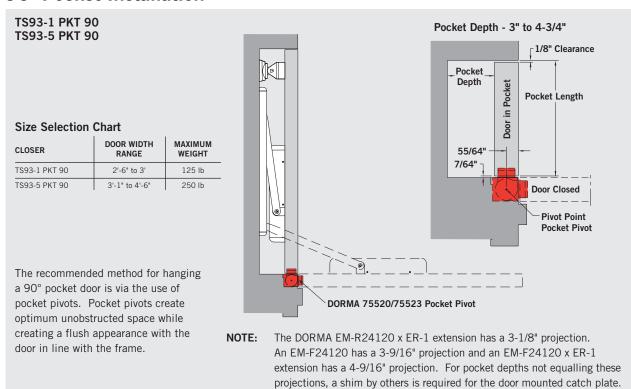
EM Series Wall Magnets

See individual product brochure for specific information.

Features (Pocket Doors)	TS93-1 PKT 90	TS93-5 PKT 90	TS93-5 PKT 90/119 OP	TS93-5 PKT 120/170	TS93-5 PKT 180
Adjustable spring size	1–5	5-6+50%	5-6+50%	5-6+50%	5-6+50%
Pull side application	•	•	•	•	•
Controlled closing with	90°-0°	90°-0°	119°-0°	170°-0°	180°-0°
two adjustment valves	7°-0°	7°–0°	7°-0°	7°-0°	7°-0°
Hydraulic backcheck	•	•	•	•	•
Hydraulic delayed action	•	•	•	•	•

yes

90° Pocket Installation



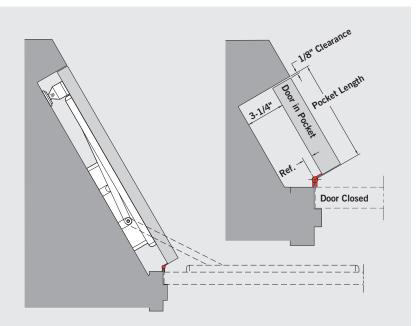
90° Through 119° Pocket Installation

TS93-5 PKT 90/119 OP

Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT	
TS93-5 PKT 90/119 OP	2'-8" to 4'	150 lb	

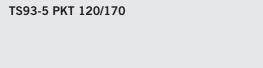
The recommended method for hanging the door is via the use of hinges. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges can be used. When using alternate methods, determine where the pivot point of the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



NOTE: The DORMA EM-R24120 x ER-1 wall magnet has a 3-1/8" projection. To create a 3-1/4" projection, a shim by others is required for the door mounted catch plate.



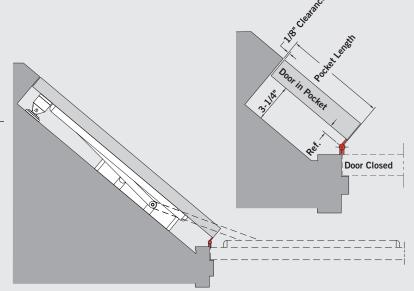
120° Through 170° Pocket Installation



Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT	
TS93-5 PKT 120/170	2'-8" to 4'	150 lb	

The recommended method for hanging the door is via the use of hinges. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges can 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 DORMA EM-R24120 x ER-1 wall magnet has a 3-1/8" projection. To create a 3-1/4" projection, a shim by others is required for the door mounted catch plate.

180° Pocket Installation

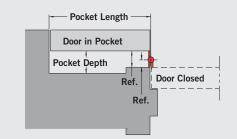
TS93-5 PKT 180

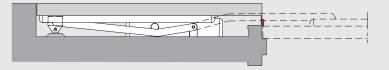
Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT
TS93-5 PKT 180	2'-8" to 4'	150 lh

The recommended method for hanging the door is via the use of hinges. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges can 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.

Pocket Depth - 3" to 3-1/4"





NOTE: The DORMA EM-R24120 x ER-1 wall magnet has a 3-1/8" projection. To create a greater projection, a shim by others is required for the door mounted catch plate.



How to Orde	er	Example	
Size	Adjustable 1–5	TS93-1	
	Adjustable 5–6 + 50%	TS93-5	
Application	Pull side mount	TS93-1 T/TS93-5 T	
	Push side mount	TS93-1 PT/TS93-5 PT	
	90° application, closer on door, track mounted on pocket wall.	TS93-1 PKT 90	
	90° application, closer on door, track mounted on pocket wall.	T002 1 DVT 00/D *	
	Includes closer assembly and (3) 75520 pocket pivots.	TS93-1 PKT 90/D *	
	90° labeled application, closer on door, track mounted on pocket wall.	TCO2 1 DKT 00/F *	
	Includes closer assembly and (3) 75523 pocket pivots.	TS93-1 PKT 90/F *	
	90° application, closer on door, track mounted on pocket wall.	TS93-5 PKT 90	
	90° application, closer on door, track mounted on pocket wall.	TS93-5 PKT 90/D *	
	Includes closer assembly and (3) 75520 pocket pivots.	1393-5 PKT 90/D **	
	90° labeled application, closer on door, track mounted on pocket wall.	TS93-5 PKT 90/F *	
	Includes closer assembly and (3) 75523 pocket pivots.		
	90° through 119° application, track mounted on door, closer on pocket wall.	TS93-5 PKT 90/119 OP	
	120° through 170° application, track mounted on door, closer on pocket wall.	TS93-5 PKT 120/170	
	180° application, track mounted on door, closer on pocket wall (specify hand).	TS93-5 PKT 180	
Options	HO - Hold open (not available with PKT packages)	TS93-1 TH0	
Finish	See DORMA finish information in this brochure.	TS93-5 T (689)	
	Example: (689) = Aluminum		

^{*} Packages include (3) pivots for doors up to 7'-6" tall. It is recommended that taller doors use (1) additional pivot for every 30" of door height or fraction thereof.

REDUCED OPENING FORCE INSTALLATIONS CAUTION: Manual door closers, including closers certified to conform to BHMA/ANSI Standard 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 catalog for information on ED800 Low Energy Operator to meet reduced opening force requirements without affecting closing power.





The quality management system at the Reamstown, PA facility is certified to ISO-9001.*

*DORMA Door Controls Inc., dba: DORMA Architectural Hardware

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