



815 King Place  
Shreveport, LA. 71115  
(318) 798-6736

Project: Third Street Restroom-Veterans Park

Architect: Dammon Engineering, Inc

Contractor: FMA, Inc.

**FMA, Inc.**

Reviewed 11-03-14

Reviewed as Noted

Reject/Resubmit

DAMMON ENGINEERING INC

Date: \_\_\_\_\_ Project: \_\_\_\_\_

Reviewed: \_\_\_\_\_

Reviewed as Noted: \_\_\_\_\_

Revise and Resubmit: \_\_\_\_\_

Rejected: \_\_\_\_\_

Other: \_\_\_\_\_

Corrections or comments made on the shop drawings **10/31/2014**, this review do not relieve the contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. This contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all in a safe and satisfactory manner.

Submittal Item: \_\_\_\_\_  
Comments

**HW Set 1**

**1 Sgl Door Women Foyer To Women RH**

**1 Sgl Door Men Foyer T Men LH**

**1 Sgl Door Tables Foyer To Tables/Chairs LH 45MIN**

**3070 1-3/4 Flush Hollow Metal Door x KD Hollow Metal Frame**

**9ea Hager ECBB1100 4.5x4.5 US26D Hinges**

**3ea Dorma CL770T LRC 626 17252 x 134 x 5001 x 1316 Classroom Lockset**

**3ea Dorma 77 BA 626 MKD x 3 Keys x VCC x DND IC Cores**

**3ea Dorma SFIC BA Control Keys**

**3ea Dorma 8916 AF89P FC SN1 689 Door Closer**

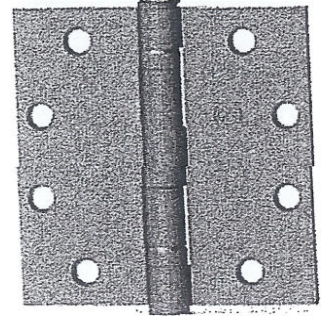
**3ea Dorma 702S 626 Overhead Stop**

**3ea NGP 2525-17' Perimeter Seal**

**End of Schedule**

**ECBB1100**

Five-Knuckle  
Ball Bearing  
Standard Weight



**Application:**

- ANSI A812
- Five knuckle
- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge
- For use on medium weight doors or doors requiring medium frequency service

**Note:**

- Complies with NFPA80 requirements for use on fire rated door assemblies

**PRODUCT SPECIFICATIONS**

**MATERIAL:**

- Steel with Steel pin

**FASTENERS:**

- All machine and all wood

**FINISHES:**

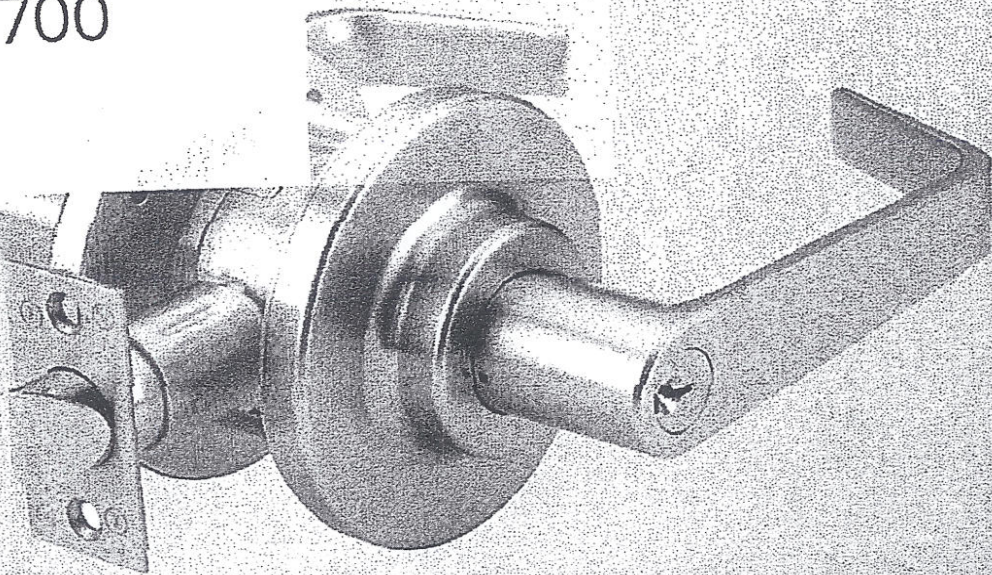
- USP, US3, US4, US10B, US15, US26, US26D

**PRODUCT SIZE OPTIONS**

HINGE SIZE (INCHES)	HINGE SIZE (MM)	GAUGE OF METAL	HOLE COUNT	SCREW SIZE (MACHINE)	SCREW SIZE (WOOD)
4-1/2 x 4	114 x 102	0.134	8	1/20 x 12-24	1 1/40 x 12
* 4-1/2 x 4-1/2	114 x 114	0.134	8	1/20 x 12-24	1-1/40 x 12

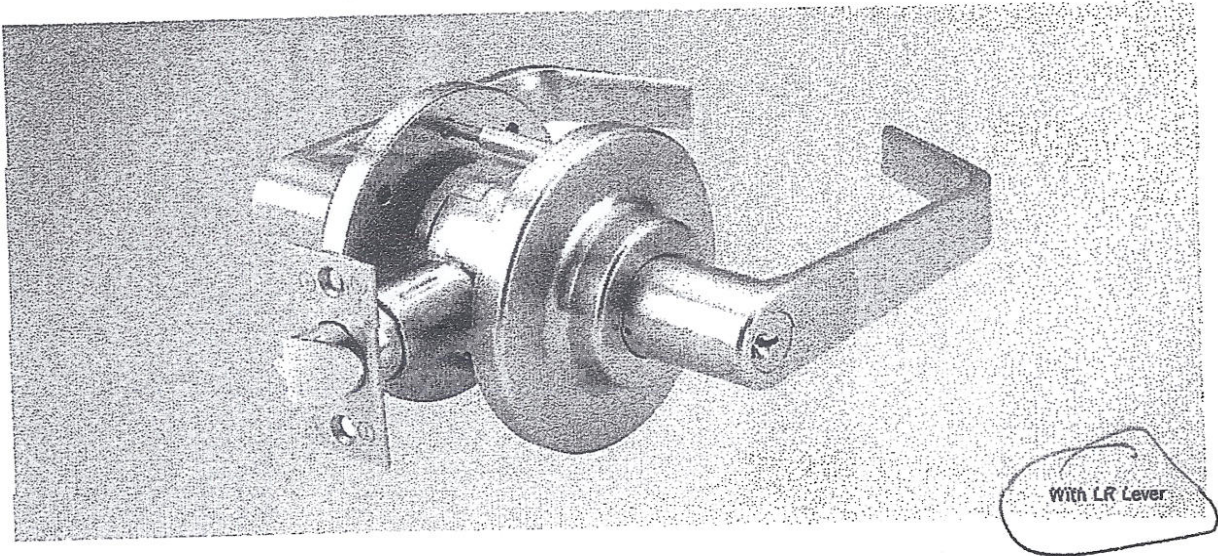


CL700  
CK700  
—



Grade 2 Cylindrical Locksets

# CL700/CK700 – CYLINDRICAL LOCKSETS



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	Exit – CL712	8
	Exit/Communicating Passage – CL725	8
	Patio – CL730, CK730	8
	Privacy, Bedroom or Bath – CL740, CK740	8
	Entry/Office – CL750	8
	Entry – CL753, CK753	9
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	Lock Options	1/2" Throw Latch Bolt
4-7/8" Strike		11
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DORMA USA quality and environmental management systems in Reamstown, PA and Staeleville, IL are certified to ISO 9001:2008 and ISO 14001:2004.



**CL700/CK700 GRADE 2 CYLINDRICAL LOCKSETS**

**Technical Details**

ANSI/BHMA A156.2 Series 4000, Grade 2	Yes	Heavy-duty residential Medium-duty commercial
UL listed for UL 10C	Yes	UL and CUL listed for use on 3-hour fire-rated doors and for all positive pressure applications
Non-handed	Yes	Simple installation
Key-in-lever lock through bolted	Yes	Provides added strength and security
Lock chassis constructed of steel and stainless steel components	Yes	Provides superior strength, durability, and corrosion resistance
Auxiliary deadlocking latch bolt	Yes	Prevents manipulation when door is closed (all keyed functions)

**Certification/Compliance**

ANSI: Certified to ANSI/BHMA A156.2 Series 4000 Grade 2. Meets A117.1 accessibility code and ADA requirements for barrier-free accessibility.



**UL/CUL – UL 10C Positive Pressure**

All CL/CK700 locks are listed 3 hour fire rated. Locks with 1/2" throw latch bolts are listed for A label and lesser class doors, 4'0" x 8'0" maximum per leaf.

**Cylinders and Keying**

- Unless otherwise specified, cylinders will be provided in DORMA standard keyway with two (2) nickel silver keys.
- Optional patented key system available.
- Refer to separate DORMA Price List for full details and options such as master keying, retrofit keyways, and small format interchangeable cores.

**Warranty**

For details, refer to Limited Warranty Policy in the current DORMA Price List.

**Finishes**

- Brass: 605 (Bright) or 606<sup>1</sup> (Satin).
- Bronze<sup>2</sup>: 612 (Satin) or 613 (Dark Oxidized Satin).
- Nickel<sup>2</sup>: 619 (Satin).
- Chrome<sup>1</sup>: 625 (Bright) or 626 (Satin).
- Stainless<sup>3</sup>: 630 (Satin).

1. Available on lever handle locksets only.
2. Special Order—extended lead times apply.
3. Available on knob locksets only.

**Special Finish Notes**

ANSI/BHMA A156.18 standards describe 613 Dark Oxidized Satin Bronze finish as a category B finish. B category finishes, "do not match from one alloy or form of material to the next and from one manufacturer to the next." The 613 finish may vary between manufacturers' products and models.

In some instances, for customer convenience, the most appropriate BHMA finish symbols are used to indicate similarity of appearance, regardless of base metal or finishing process. Levers are zinc-based material and are finished to match finishes indicated. Finishes of latches, strikes, cylinders/cores, and visible mounting screws, though similar in appearance, may differ from the finish of the trim. Finish designations in the 600 numbers are the BHMA (Builders Hardware Manufacturers Association) industry standard.

**Security Screws**

Torx® tamper-resistant screws are available for all exposed screws. Specify TX.

## DORMA'S CL700 AND CK700 SERIES GRADE 2 CYLINDRICAL LOCKSETS PROVIDE EXCEPTIONAL SECURITY, ENHANCED AESTHETICS, AND RUGGED DEPENDABILITY.

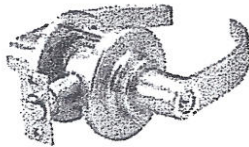
DORMA CL/CK700 Series key-in-lever locksets are built with a high performance cylindrical chassis for all applications where ANSI/BHMA A156.2 Series 4000 Grade 2 products are required. To meet the aesthetic needs of your project, these versatile locks are available in a range of lever and knob trim designs. Choose between the LR, LC, and LG lever designs or the KB knob design.

### Features

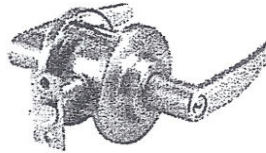
- All DORMA CL/CK700 Series locks feature advanced design concepts, providing exceptional reliability and are manufactured with the finest materials, delivering enhanced durability.
- DORMA CL/CK700 Series locksets are easy to install in both wood or hollow metal doors with ANSI/BHMA Standard A156.115 door preparations for cylindrical locks.
- All CL700 lever handle locks include special spring assemblies designed to hold the levers in the correct position.
- CL700 Series locks are through bolted for additional strength and increased resistance to vibration.
- All CL/CK700 Series locks adjust easily to accommodate doors from 1-3/8"–1-3/4" thick without using spacers or special tools. Consult the factory for other door thicknesses.

### Recommended Applications

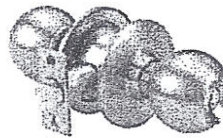
- Hotels
- Apartments
- Churches
- Municipal Buildings
- Retail Complexes
- Offices



With LC Lever



With LG Lever



With KB Knob

# HOW TO ORDER CL700/CK700 SERIES LOCKS

<b>Function</b>		<b>Cylinder Type</b>		<b>Finish<sup>3</sup></b>		<b>Door Thickness</b>		<b>Strike Options<sup>2</sup></b>		<b>Lip Length<sup>2</sup></b>	
Storeroom	80	D	Conventional Cylinder	630	Satin Stainless (CK700 only)	1 3/8"	1-3/8" - 1-3/4"	134	5001	1316	XXXX
Classroom	70	L	Less Cylinder	626	Satin Chrome (CL700 only)	1 3/4"					
Entry	53	C	SFIC	625	Bright Chrome (CL700 only)						
Entry/Office	50	J	Less Core SFIC	619	Satin Nickel (CL700 only) <sup>4</sup> (Special Order Only)						
Privacy, Bedroom or Bath	40	T	Construction Core SFIC	613	Dark Oxidized Satin Bronze (CL700 only)						
Patio	30			612	Satin Bronze (CL700 only)						
Exit/Communicating Passage	25			606	Satin Brass (CL700 only)						
Exit	12			605	Bright Brass						
Passage/Closet	10										
Dummy Trim One Side	01										

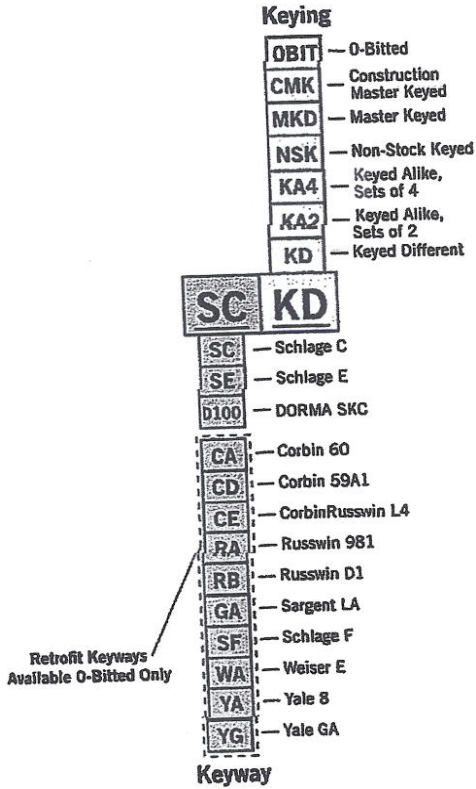
<b>Product Type</b>	<b>Product Family</b>	<b>Lever/Knob Design</b>	<b>Rose Design<sup>1</sup></b>	<b>Security Screws</b>	<b>Door Hand</b>	<b>Latch Bolt<sup>2</sup></b>
Knob Trim — CK Lever Trim — CL	Grade 2 Cylindrical Lockset	Lever — LR Lever — LC Lever — LG Knob — KB	B — 3" Dia. Rose C — 3-7/16" Dia. Rose	TX	RH — Right Hand LH — Left Hand	

See Next Page for Keying Options

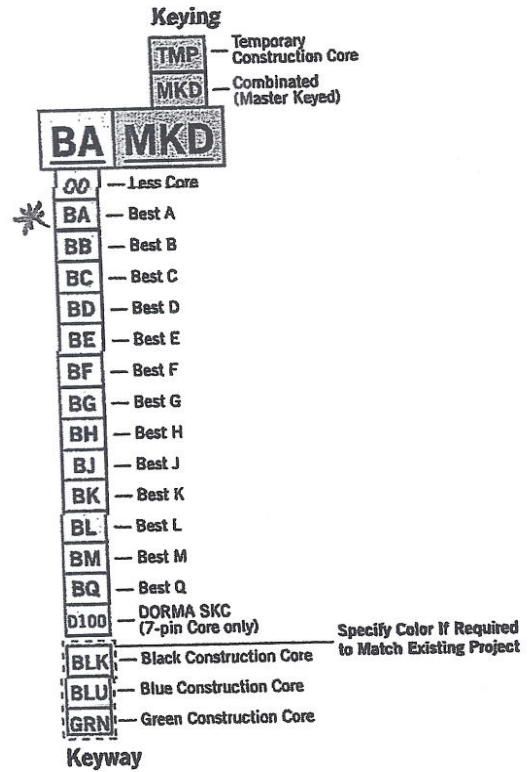
1. Rose B is applicable to KB design only. Rose C is applicable to LR/LC/LG designs only.
2. Example shows default values. Refer to Lock Options section for full details.
3. For split finishes, specify hand and consult factory.
4. 619 Satin Nickel requires an extended lead time. Consult factory.
5. Refer to DORMA Price List for full details.

# HOW TO ORDER KEYWAYS

## Standard Keyways

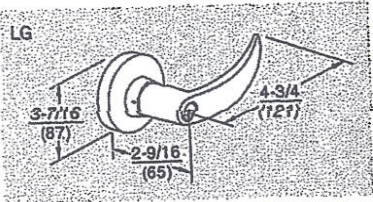
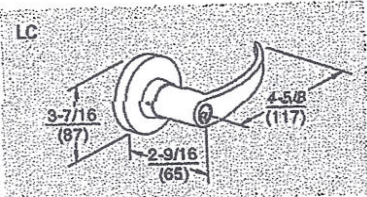
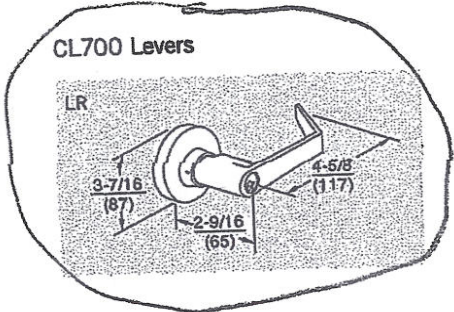


## IC Keyways

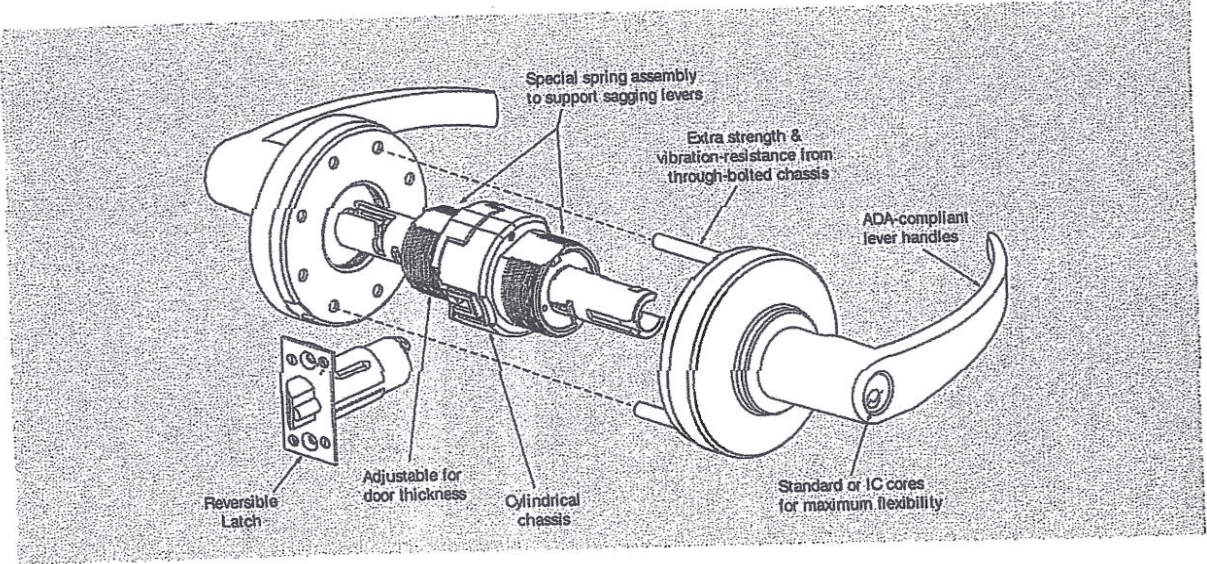
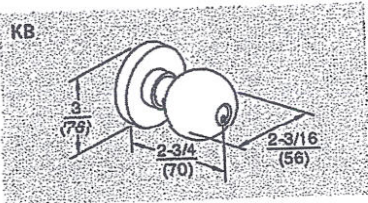


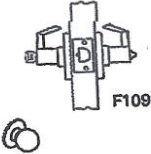
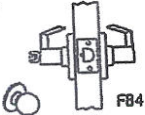
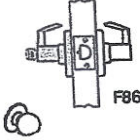
# TRIM OPTIONS

## CL700 Levers



## CK700 Ball Knob



Function	Series	Outside/Inside	Description
Entry	CL753 CK753	 F109	<ul style="list-style-type: none"> <li>• Deadlocking latch bolt operated by trim from either side, except when outside trim locked by push button inside.</li> <li>• Key outside releases push button, unlocking outside trim, except when inside button pushed and turned to keep outside trim locked.</li> <li>• Operating inside trim releases push button, unlocking outside trim, except when inside button pushed and turned to keep outside trim locked.</li> <li>• Inside button must be turned to relock outside trim.</li> <li>• Inside trim always operates latch bolt.</li> </ul>
Classroom	CL770 CK770	 F84	<ul style="list-style-type: none"> <li>• Deadlocking latch bolt operated by trim from either side, except when outside trim locked by key from outside.</li> <li>• When outside trim locked, latch bolt is operated by key in outside trim.</li> <li>• When outside trim locked, latch bolt operated by inside trim.</li> </ul>
Storeroom	CL780 CK780	 F86	<ul style="list-style-type: none"> <li>• Deadlocking latch bolt retracted by key in outside trim.</li> <li>• Deadlocking latch bolt operated by inside trim.</li> <li>• Outside trim always inoperable.</li> </ul>



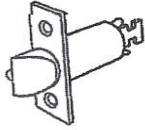
Indicates rigid lever.



Indicates available as ball knob.

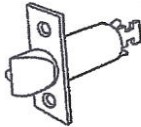
## LOCK OPTIONS

### 1/2" Throw Latch Bolt



DORMA FUNCTION (ANSI)	Part Number				
	2-3/4" Backset 1-1/8" Faceplate Square Corner	2-3/4" Backset 1" Faceplate Square Corner	2-3/4" Backset 1" Faceplate 1/4" Radius Corner	3-3/4" Backset 1-1/8" Faceplate Square Corner	3-3/4" Backset 1" Faceplate Square Corner
710 (F75) – Passage/Closet	17202	17200	17201	17302	17300
712 (F89) – Exit	17252	17250	17251	17352	17350
740 (F76A) – Privacy, Bedroom or Bath	17232	17230	17231	17332	17330
730 (F77A) – Patio	17282	17280	17281	17382	17380
750 (F82) – Entry/Office	17252	17250	17251	17352	17350
770 (F84) – Classroom	17252	17250	17251	17352	17350
780 (F86) – Storeroom	17252	17250	17251	17352	17350
753 (F109) – Entry	17252	17250	17251	17352	17350
725 (F111) – Exit/Communicating Passage	17252	17250	17251	17352	17350
701 – Dummy Trim One Side	-	-	-	-	-

### 1/2" Throw Latch Bolt (Continued)

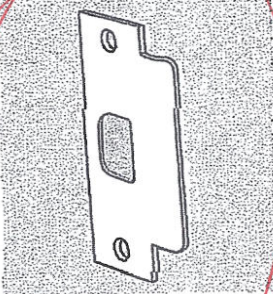


DORMA FUNCTION (ANSI)	Part Number			
	3-3/4" Backset 1" Faceplate 1/4" Radius Corner	2-3/8" Backset 1-1/8" Faceplate Square Corner	2-3/8" Backset 1" Faceplate Square Corner	2-3/8" Backset 1" Faceplate 1/4" Radius Corner
710 (F75) – Passage/Closet	17301	17102	17100	17101
712 (F89) – Exit	17351	17152	17150	17151
740 (F76A) – Privacy, Bedroom or Bath	17331	17132	17130	17131
730 (F77A) – Patio	17381	17182	17180	17181
750 (F82) – Entry/Office	17351	17152	17150	17151
770 (F84) – Classroom	17351	17152	17150	17151
780 (F86) – Storeroom	17351	17152	17150	17151
753 (F109) – Entry	17351	17152	17150	17151
725 (F111) – Exit/Communicating Passage	17351	17152	17150	17151
701 – Dummy Trim One Side	-	-	-	-

**NOTES:**

- 2-3/4" backset with 1/2" throw is the CL/CK700 Series default.
- Links for 3-3/4" and 5" backset require 2-3/8" backset latches.

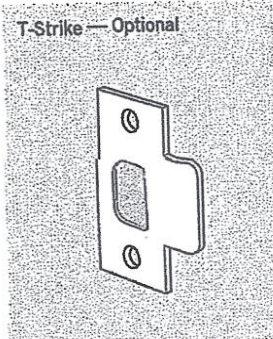
4-7/8" Strike — Standard



5001 — ANSI 1-1/4" x 4-7/8" square strike. 1-3/16" lip length. Default strike for all CL700 Series Locks. Optional strike for CK700 Series locks.

76006253 — Optional dust box for 5001-ANSI strike.

T-Strike — Optional



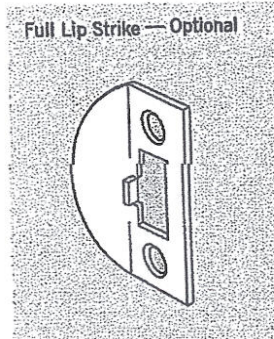
Dust box included.

5101 — 1-1/8" x 2-3/4" square T-strike. 1-1/8" lip length. Default Strike for all CK700 Series Locks. Optional for CL700 Series Locks.

5102 — 1-1/8" x 2-3/4" T-strike with 1/4" radiused corners 1-1/8" lip length. Optional for all CL/CK700 Series locks.

For optional 1-1/2" lip length, specify 5101-112 or 5102-112.

Full Lip Strike — Optional



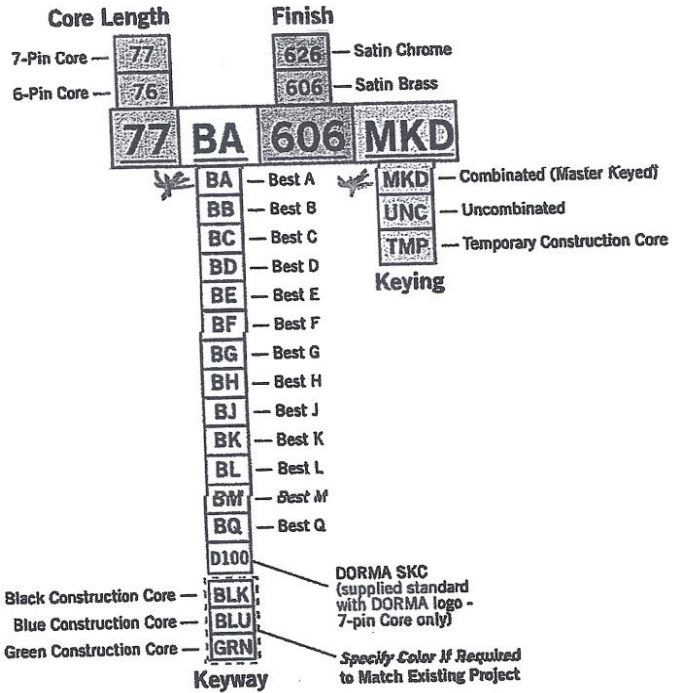
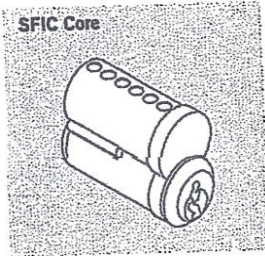
5201 — 1-5/8" x 2-1/4" square full curved lip strike. 1-1/8" lip length. Optional for all CL/CK700 Series locks.

5202 — 1-5/8" x 2-1/4" full curved lip strike with 1/4" radiused corners. 1-1/8" lip length. Optional for all CL/CK700 Series locks.


76006254 — Optional dust box for 5201 and 5202 strikes.

# HOW TO ORDER

## Interchangeable Cores SFIC



**Technical Details**

- Available as 8916 with  fully adjustable spring sizes 1-6. Size 1 (5 lb opening force) meets interior barrier-free AD requirements.
- 8916 may be used on doors up to 48" wide interior (42" wide exterior) and up to 180 lb.
- 8956 available with adjustable spring sizes of 5-6 +50% for use on exceptionally wide, tall, or heavy doors.
- Non-handed for regular, top jamb, and parallel arm applications.
- Backcheck (BC) valve (standard) provides adjustable-intensity hydraulic cushioning, preventing uncontrolled door opening to protect door and frame during abusive or abrupt opening.
- POS backcheck positioning valve (standard) maintains an effective backcheck range on parallel arm applications. Valve is accessible with the closer installed.
- Full adjustment using BC, POS, Sweep and Latch valves standard.
- Optional delayed action (DA) adjustable with separate independent valve to allow for unobstructed passage through opening.
- Full plastic cover standard. Full metal or full plastic slotted covers optional.
- All tamper-resistant (hex key) valve adjustments (including POS) accessible with closer installed.
- Standard components required for three most popular mounting configurations (Reg., TJ, PA).
- Standard fasteners include separate wood and metal screws and SN1 sex nuts for 1-3/4" thick doors.
- Full-sized templates enable accurate installation.
- A variety of specialty arm options, interchangeable across most DORMA surface closer models.

- Full complement of optional plates and brackets available for special applications.
- Screw options include self-drilling and tapping screws (DPK89) for steel door and frame applications or self-tapping screws (TPK89) for aluminum door and frame applications.
- Stainless steel (STA Series) model available (see STA brochure for details).
- Available with holder/release with (EMR Series) or without (EMF Series) photoelectric detector to control spread of smoke and fire (see EMR/EMF brochure for details).

**Certifications**

- ANSI/BHMA A156.4 Grade 1 certified.
- UL and CUL listed.
- Meets UL10C for positive pressure.
- Meets ANSI/BHMA A117.1 and ADA for barrier-free accessibility.
- CSFM approved.



**Specification**

The heavy-duty 8900 Series non-handed surface applied door closer with adjustable spring power and backcheck positioning adjustment. The 8900 has two independent, noncritical adjustment valves to control sweep and latch closing speeds. The backcheck positioning valve maintains an effective backcheck range on parallel arm applications. The 8916 will be available with field adjustable spring power from size 1-6 for barrier-free requirements. All closers to have field adjustable spring power from size 1-6 and meet barrier-free requirements. The 8956 will be adjustable size 5 to 6 +50% additional closing force over the size 6. All 8900 fully adjustable spring force door closers to include an integral design to positively stop adjustment of the spring at the minimum and maximum spring force settings.

**Optional Specifications:**

The 8600 Series closer will have delayed action (DA). Delayed action range will be effective from maximum opening to approximately 65°. All 8900 closers to have full metal covers. All 8900 closers to have sex nuts with machine screws for 1-3/8" door (SN2). Closers to have self-drilling screws for steel doors and frames (DPK86). Closers to have self-tapping screws for aluminum doors and frames (TPK86). Closers to have TORX security for all exposed fasteners (TX89).

**Finishes**

**Standard Sprayed Finishes**

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

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

**Optional Plated/Architectural Finishes**

- Brass: 605 (Bright) or 606 (Satin).
- Bronze: 611 (Bright), 612 (Satin), or 613 (Oxidized Satin Oil Rubbed).
- Nickel: 618 (Bright) or 619 (Satin).
- Chrome: 625 (Bright) or 626 (Satin).
- Stainless: 630 (Satin).

**Warranty**

For details, refer to DORMA Limited Warranty on our website at [go.dorma.com/terms](http://go.dorma.com/terms).

**REDUCED OPENING FORCE INSTALLATIONS CAUTION**

Manual door closers, including those 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 catalog for Low Energy Operators to meet reduced opening force requirements without affecting closing power.

Features	8916	8956
Spring size (8916 shipped as size 4)	1-6	5-6 + 50%
Non-handed	•	•
Parallel arm bracket	•	•
Full line of specialty function arms and plates	•	•
Backcheck positioning adjustment	•	•
Controlled closing with two adjustment valves	180°-15° 15°-0°	180°-15° 15°-0°
Backcheck	•	•
Hydraulic delayed action	•	•
Hold open	•	•
SN1 sex nuts for 1-3/4" thick doors included	•	•
Self-drilling screws	•	•
Self-tapping screws	•	•
Tamper-resistant TORX screws	•	•
Full cover (plastic)	•	•
Full cover (metal)	•	•

• standard    ◦ optional

# HOW TO ORDER 8900 SERIES

Spring Size			Body Cover			Accessory Plates			Other Accessories				
Fixed size 2 for TEL	02		Full Plastic	FC	Drop Plate	DPXX	AB89	Angle Bracket					
Adjustable 1-6	16		Full Plastic Slotted	FCSL	Back Plate	BPXX	NFHD	Narrow Frame Bracket, Heavy Duty					
Fixed Size 7	07	TEL	Full Metal Cover***	FMC			FTHD	Flush Transom Bracket, Heavy Duty					
Adjustable 5-6	56	DA					BS	Blade Stop Spacer					
							BSHD	Blade Stop Heavy Duty					
<b>Series</b>	<b>89</b>	<b>16</b>	<b>AF89</b>	<b>FC</b>	<b>SN1</b>						<b>689</b>		
	Flat Form Non-Hold Open, Tri-Pack	AF89P	PFI	Parallel Flush Transom Bracket	TX89	Torx Security Pack					605	Polished Brass	
	Flat Form Non-Hold Open, TJ 4"-8" Reveal	AF89J	PD	Parallel Drop Bracket	SN2	Sex Nuts 1-3/8"					606	Satin Brass	
	Flat Form Non-Hold Open, Reg./TJ 0"-4" Reveal	AF89	MJ	Mortise Jamb Bracket	SN1	Sex Nuts 1-3/4"					611	Polished Bronze	
	Friction Hold Open, Tri-Pack	FHP			SNDPK	Std. and Self-Drilling					612	Satin Bronze	
	Friction Hold Open, TJ 4"-8" Reveal	FHJ			DPK89	Self-Drilling					613	Oxidized Satin Oil Rubbed Bronze	
	Friction Hold Open, Reg./TJ 0"-4" Reveal	FH			SNTPK	Std. and Self-Tapping					618	Polished Nickel	
	Plunger Hold Open, Parallel Arm (TJ 1-1/2"-3-1/2" Reveal)	PHP			TPK89	Self-Tapping					619	Satin Nickel	
	Plunger Hold Open, Reg./TJ 0"-1-1/2" Reveal	PH									625	Polished Chrome	
	Door Saver Parallel Cushion Arm	DS									626	Satin Chrome	
	Door Saver Parallel Cushion Arm Thumb Turn Hold Open	DST										Satin Stainless* (SIS/SISJ arm assembly only)	
	Spring Door Saver Parallel Dead Stop	DSK									630	Primed	
		SDS										689	Aluminum
	Cushion IS Arm Reg./TJ 0"-3-1/2" Reveal	SDST										690	Statuary Bronze
		IS										691	Dull Bronze
	Spring Stop IS Arm Reg./TJ 0"-3-1/2" Reveal	ISH										693	Black
		SIS										695	Dark Duranodic Bronze
	Cushion IS Arm Top Jamb 3-1/2"-6-1/2" Reveal	SISH										696	Gold
		ISJ										PNT	Special sprayed finish (must specify)**
	Spring Stop IS Top Jamb 3-1/2"-6-1/2" Reveal	ISJH											
		SISJ											
	Super Parallel Arm	SISJH											
	Super Parallel Arm Thumb Turn Hold Open	SPA											
	Super Parallel Arm Hex Key Hold Open	SPAT											
	Track, Pull Side Door Mounted	SPAK											
	Jamb Track, Pull Side Frame Face Mounted	T											
	Push Track, Push Side Soffit Mounted	JT											
	Track Double Egress, Pull Side Transom Mounted	PT											
	Track Hold Open, Pull Side Door Mounted	TDE											
	Push Track Hold Open, Push Side Soffit Mounted	FT											
	Flush Track Hold Open, Pull Side Frame Face Mounted	TH											
	Track Application, 90° Pocket Door, Includes 3 ea. 75520 Pocket Pivots (8956 only)	JTH											
	Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots	PTH											
	Double Lever Flat Form Arm, 90° Pocket Door (8907 only)	TDEH											
		FTH											
		TPKT90											
		TPKT90/P											
		T PKT90/PF											
		AFPKT90											
		AFPKT180											

**Accessory Brackets**

**Fastener Pack**

**Architectural**

**Painted**

**Plated**

**Arm Type**

**NOTES:**

- All combinations of features and options are not available for all models.
- Non-fire rated, 90° TPK (90° pocket) applications require (3 ea.) 75520 pocket pivots, ordered separately.
- Fire rated, 90° TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered separately.
- FMC is only cover available in plated finish.

\*Stainless base material with brushed Satin Finish.  
 \*\*For optional DORMA custom color or designer color finishes, contact Customer Service.  
 \*\*\*Specify handing of FMC for all JT, T, and FT applications.

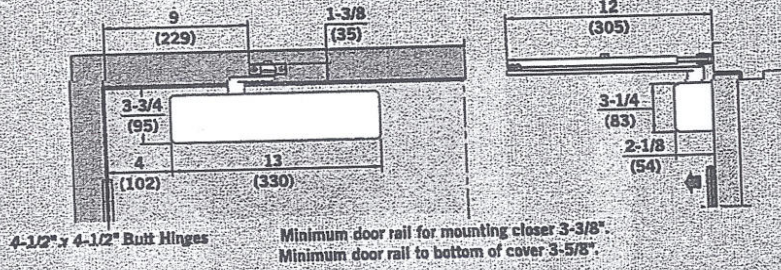
Technical Drawing Symbols & Notes

- - Recommended application
- N/A - Not applicable/application not recommended
- ♿ - Opening force 5 lb or less on interior doors

NOTE: The effective degree at which the backcheck occurs is determined by a backcheck positioning adjustment. Specifically designed for parallel arm applications, it advances the backcheck to an approximate range similar to regular and top jamb applications. The backcheck range(s) shown with each parallel arm technical drawing reflects an on status. Regular, top jamb, and track ranges reflect an off status. The 8900 Series closer is shipped with the backcheck positioning valve on.

## REGULAR x FLAT FORM ARM

8916 AF89  
8956 AF89



Size Selection Chart

		Door Width						
Closer	Interior/Exterior	2'-0\"/>						
8916	Interior	•	•	•	•	•	•	N/A
	Exterior	•	•	•	•	•	•	N/A, N/A
8956	Interior	N/A	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	N/A	•	•	•	N/A

Maximum Opening	*Approximate Backcheck	Approximate Delayed Action
180°	65°-180°	180°-65°

\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

The versatile 700/ 900 Series complements DORMA's full range of door closers and provides total door control systems.

Separate stops and holders are the preferred method of limiting door swing. They are ideal where the use of wall or floor stops is precluded. These high quality units are both durable and visually pleasing.

A standard two-coat paint finish is the best choice to match sprayed DORMA door closers. Optional plated finishes are also available.

Stop only units are designed to limit the degree of door swing while providing a cushioned stop. These units are a good choice for use on labeled fire doors where hold open is prohibited.

Stop/Hold units function like stop only units with an added selective on/off hold open feature. An inconspicuous slot screw on the face of the track channel allows field engagement/disengagement of hold open. Stop/hold is recommended where non-labeled doors must be held in the open position.

Friction/Stop units provide a cushioned limiting stop and adjustable friction stay. The accessible screw on top of the slide shoe allows field adjustment of the friction. This option provides a method of holding non-labeled doors at multiple positions without readjustment. Available in 700/710 Series only.

#### Materials

The strength, performance, and corrosion-resistance of aluminum make it a natural choice for the extruded track channel.

Nylon composites have proven friction resistance and durability, and are ideal for the Standard Duty 700 Series slide shoe. The Heavy-Duty 900 Series incorporates a slide block machined from solid brass, offering greater strength and durability.

Zinc plated steel arms and parallel arm brackets function as connecting links to transfer the power of a door closer between the door and frame. These same materials are used for the arm and soffit plate of the stop/holder line.

The symmetrical hole pattern of the soffit plate simplifies frame preparation and installation. The two-coat paint finish adds further corrosion-resistance in addition to zinc plating.

This progressive combination of materials and design eliminates the need for complicated variations. The simplified DORMA line suits virtually all applications.

#### Degree of Stop/Hold

DORMA stops and holders provide limiting stop or hold open at 85°, 90°, 95°, 100°, 105°, and 110° of the door opening. Stop only and friction stop units limit door swing at the degree determined by the template dimensions selected at installation. Stop/hold units provide hold open at the degree selected at installation. The maximum door swing is several degrees greater than the hold open due to compression of the cushioned stop.

#### Certification

▪ The DORMA 700/900 Series is listed by UL and CUL under their continuing reinspection programs.



▪ The 700/900 Series is certified to the requirements of ANSI/BHMA A156.8 Grade 1 (900/910) and Grade 3 (700/710).

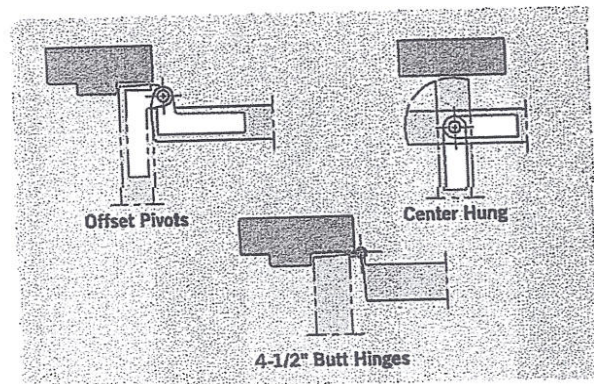


#### Reinforcement

DORMA stops and holders are designed and manufactured from the highest quality materials to provide optimum service under heavy-duty use. Doors and frames must be properly reinforced to provide fastening of the track channel/ soffit plate and to withstand the operational forces involved. Refer to the individual product templates for additional reinforcement details.

#### Door Swing/Thickness

The information in this brochure is relative to 1-3/4" thick doors hung on 4-1/2" x 4-1/2" butt hinges, 3/4" offset pivots, and center hung pivots. Other methods of door hanging such as continuous hinges, invisible hinges, wide throw hinges, swing clear hinges, and 1-1/2" offset pivots can change the throw of the door. Likewise, altering the door thickness from 1-3/4" may require different templating. Contact DORMA Technical Service for assistance with applications other than those listed.



# HOW TO ORDER 700/900 SERIES

**Optional Brackets  
(Use with RTS Closers)**

<b>Series</b> Heavy Duty Surface — <b>90</b> Heavy Duty Concealed — <b>91</b> Standard Surface — <b>70</b> Standard Concealed — <b>71</b>	Push Side Mounting Bracket Used w/903 & RTS Offset Hung	<b>903RTSOFF</b>	<b>PNT</b>	— Special Sprayed Finish (must specify)
	Push Side Mounting Bracket Used w/902 & RTS Offset Hung	<b>902RTSOFF</b>	<b>696</b>	— Gold
	Push Side Mounting Bracket Used w/RTS Center Hung	<b>900RTSCH</b>	<b>695</b>	— Dark Duranodic Bronze
	Pull Side Mounting Bracket	<b>7090</b>	<b>693</b>	— Black
			<b>691</b>	— Dull Bronze
			<b>690</b>	— Statuary Bronze
			<b>689</b>	— Aluminum
			<b>600</b>	— Primed
	<b>90</b>	<b>2</b>	<b>S</b>	<b>626</b>
	<b>1</b>	<b>S</b>	— Stop Only	<b>605</b>
	<b>2</b>	<b>H</b>	— Stop/Hold	<b>606</b>
	<b>3</b>	<b>F</b>	— Friction Stop (700 only)	<b>611</b>
			<b>Function</b>	<b>612</b>
				<b>613</b>
				<b>618</b>
				<b>619</b>
				<b>625</b>
				<b>626</b>

**Door Size**  
Refer to 700/900 Series Brochure; varies by Model and Mount.

**Painted**

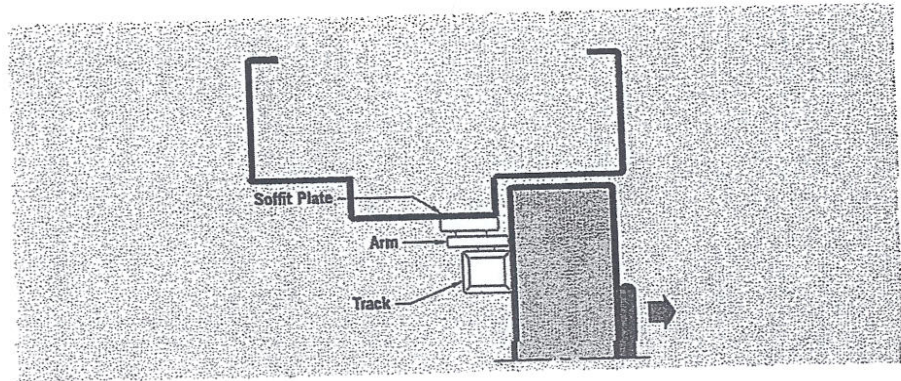
- Bright Brass
- Satin Brass
- Bright Bronze
- Satin Bronze
- Oxidized Satin Oil Rubbed Bronze
- Bright Nickel
- Satin Nickel
- Bright Chrome
- Satin Chrome

**Plated**

# APPLICATIONS

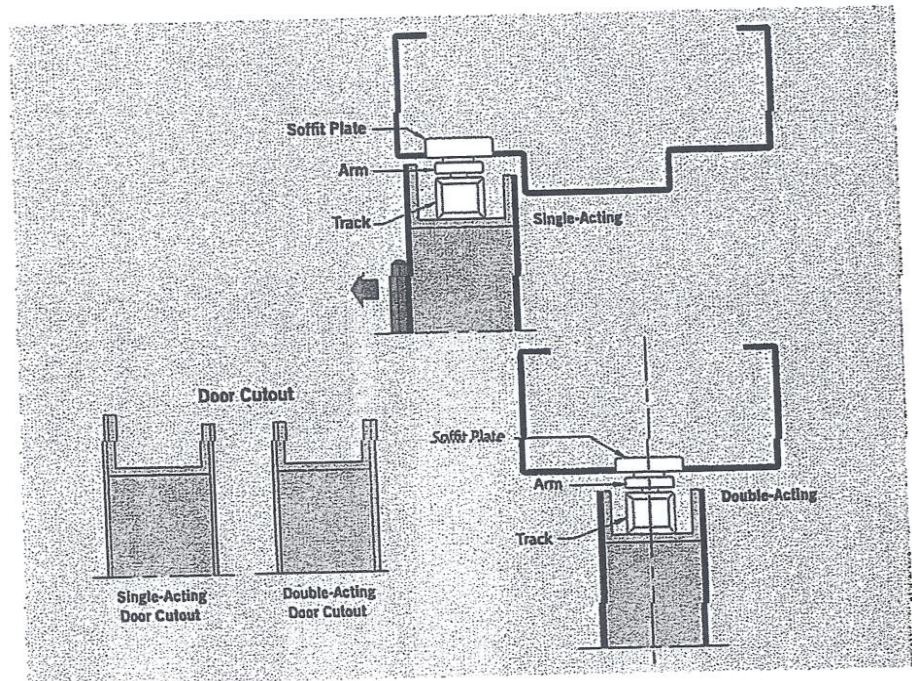
## Surface Mounted

Surface mounted stop/holder installations require preparation of the push side door face and stop. The track is surface applied to the door face and the soffit bracket is secured to the stop. It does not require mortising the door or the frame. Surface mounted stops/holders can only be used on single-acting doors.



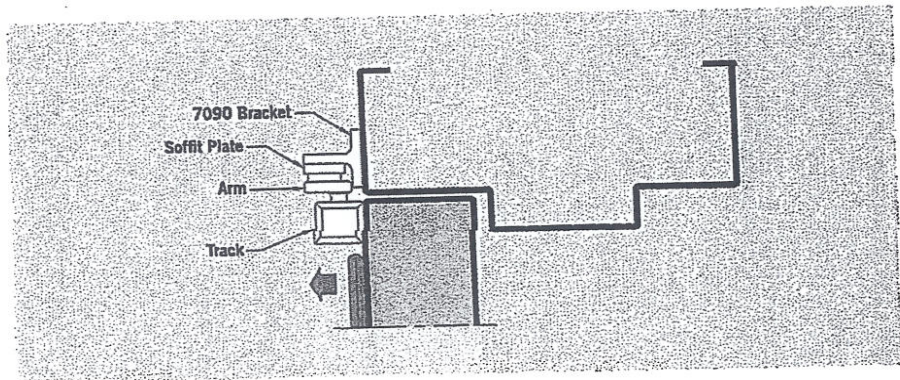
## Concealed Mounted

Concealed mounted stop/holder installation requires mortising the door and frame. The track is installed in the mortise on the top edge of the door. The soffit plate is installed in a mortise in the frame. Concealed mounted stops/holders can be used on single- and double-acting doors. Single-acting doors require a cutout in the push face. Double-acting doors require cutouts in both faces of the door.

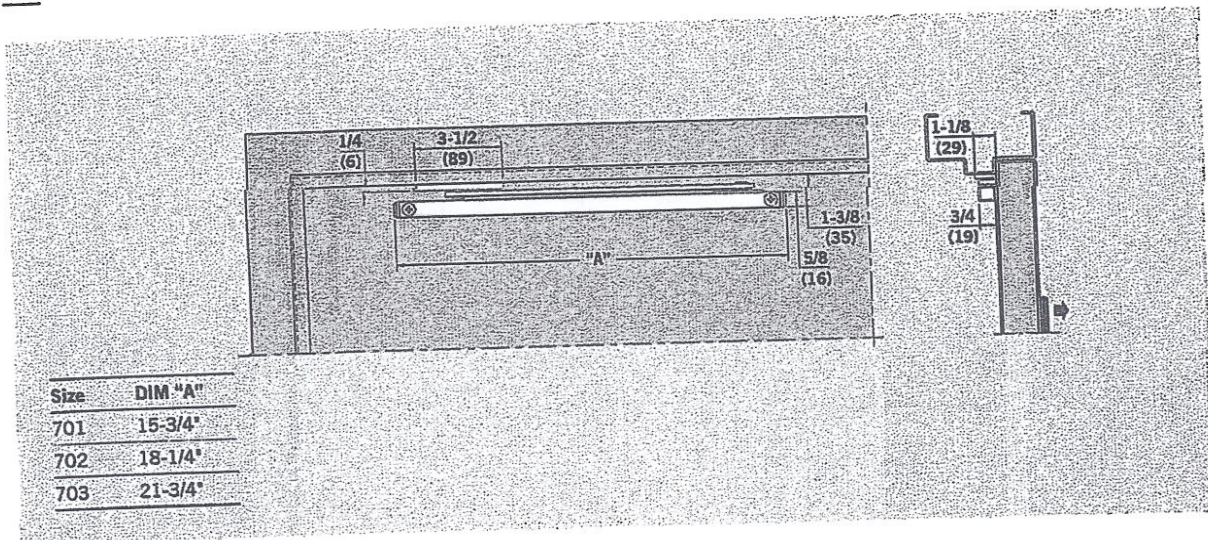


## 7090 Mounting Bracket

The 7090 mounting bracket is required when surface mounted stops/holders are installed on the pull side. It is also used with flush rabbeted transom panels.



# 700 STANDARD DUTY SURFACE APPLIED



Size	DIM "A"
701	15-3/4"
702	18-1/4"
703	21-3/4"

- 700S – Surface applied stop only
  - 700H – Surface applied stop selective on/off hold open
  - 700F – Surface applied stop only adjustable friction
- Holds door at any angle

- Limits door swing
- Built-in cushioned stop
- Non-handed
- Available stop only, stop/hold, or friction stop
- Selective on/off feature with hold open unit
- Adjustable friction tension with friction stop unit
- Certified to ANSI/BHMA A156.8 Grade 3
- Available in painted finishes
- Plated finishes also available

### Finishes

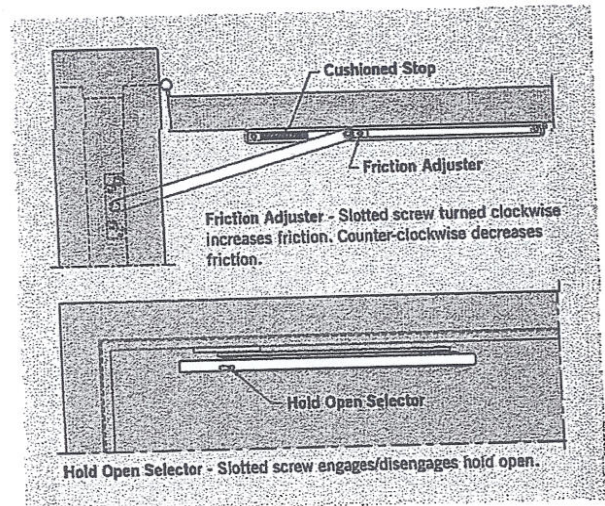
#### Standard Sprayed Finishes

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

#### Optional Plated Finishes

- Brass: 605 (Bright) or 606 (Satin)
- Bronze: 611 (Bright), 612 (Satin), or 613 (Oxidized Satin Bronze Oil Rubbed)
- Chrome: 625 (Bright) or 626 (Satin)

Endcaps are furnished in matte black.



## 700 Series Size Selection Chart

Size	Butts/Offset Pivots			Center Hung				
	Door Opening	Stop Only	Hold Open	Friction	Door Opening	Stop Only	Hold Open	Friction
1	21" to 27"	701S	701H	701F	24" to 28"	701S	701H	701F
2	27-1/8" to 36"	702S	702H	702F	28-1/8" to 36"	702S	702H	702F
3	36-1/8" to 54"	703S	703H	703F	36-1/8" to 54"	703S	703H	703F

COMPANY:  
 ACCOUNT#  
 ADDRESS:  
 ADDRESS:  
 PHONE:  
 FAX:  
 CONTACT:

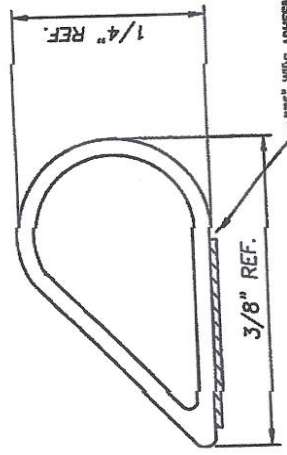
2525 SILICONE BULB  
SMOKE SEAL

REVISIONS		
REV.	DESCRIPTION	DATE



SCALE = FULL

TOLERANCE = GASKET MANUFACTURER'S STANDARDS.

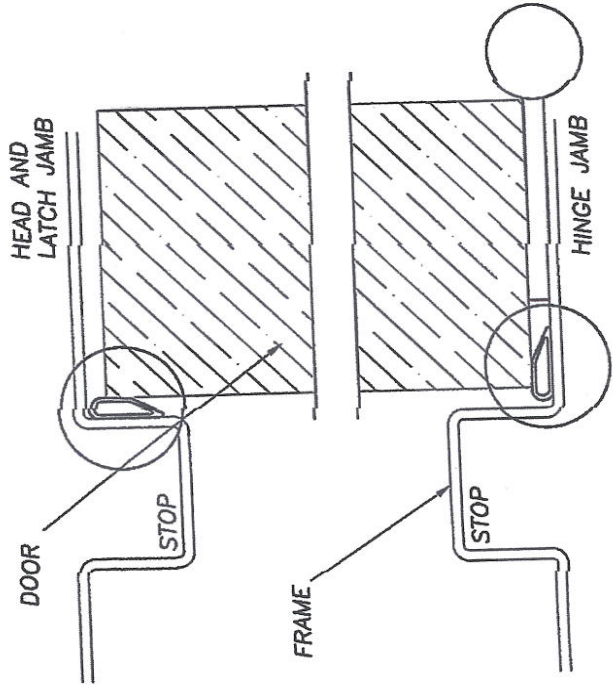


SCALE = FULL X 5


GASKET MATERIAL:  
 SILICONE

- GASKET COLOR:  
 2525B = BROWN  
 2525C = CHARCOAL  
 2525W = WHITE  
 2525T = TAN

AVAILABLE IN 17', 20', 21', 25', AND 300' ROLLS  
 PLEASE REFER TO NGP CATALOG



INSTALLED VIEW



NGP  
 NATIONAL GUARD PRODUCTS, INC.  
 4985 EAST RAINES ROAD  
 MEMPHIS, TN 38118  
 PHONE (800) 647-7874  
 FAX (800) 255-7874

REV			
A			

DATE: 06/10/11 SHEET: 1 OF 1