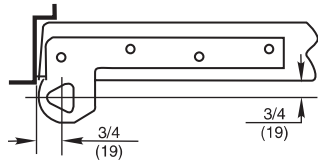
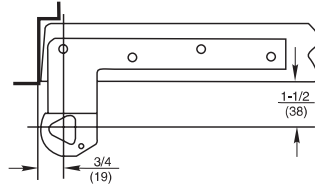


1. OFFSET VS. CENTER HUNG APPLICATION



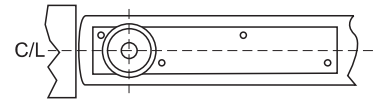
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door.



Center Hung

Pivot point centered in thickness of door. (Not for use on fire doors.)

2. SIZE OF DOOR (WIDTH, HEIGHT, THICKNESS)

DOOR MATERIAL	DOOR THICKNESS				
	1-3/8"	1-3/4"	2"	2-1/4"	2-1/2"
	Weight-per-square-foot (in pounds):				
Aluminum		3-1/2			
Ash	4-1/2	5-1/4	6	6-3/4	7-1/2
Birch	3-3/4	4-1/2	5	5-3/4	6-1/4
Hollow Metal	6-1/2	6-1/2		6-1/2	
Oak	6	7	8	9	10
Pine	3	3-1/2	4	4-1/4	5
	LEAD THICKNESS				
	1/64"	1/16"	1/8"	1/4"	
	Weight-per-square-foot (in pounds):				
LEAD LINING	1	3-3/4	7-1/2	13-3/4	
	GLASS THICKNESS				
		3/8"	1/2"	3/4"	
TEMPERED GLASS	Weight-per-square-foot (in pounds):				
		5	8	9-3/4	
	THICKNESS				
MARBLE/GRANITE CLADDING	Weight-per-square-foot (in pounds):				
				* 3/4"	
				10-1/2	

Example: A two-inch-thick birch door has a square foot weight of five pounds. If the door has standard dimensions of 3'(width) x 7'(height), this equals 21 square feet. So, 5 pounds x 21 square feet = 105 pounds total weight.

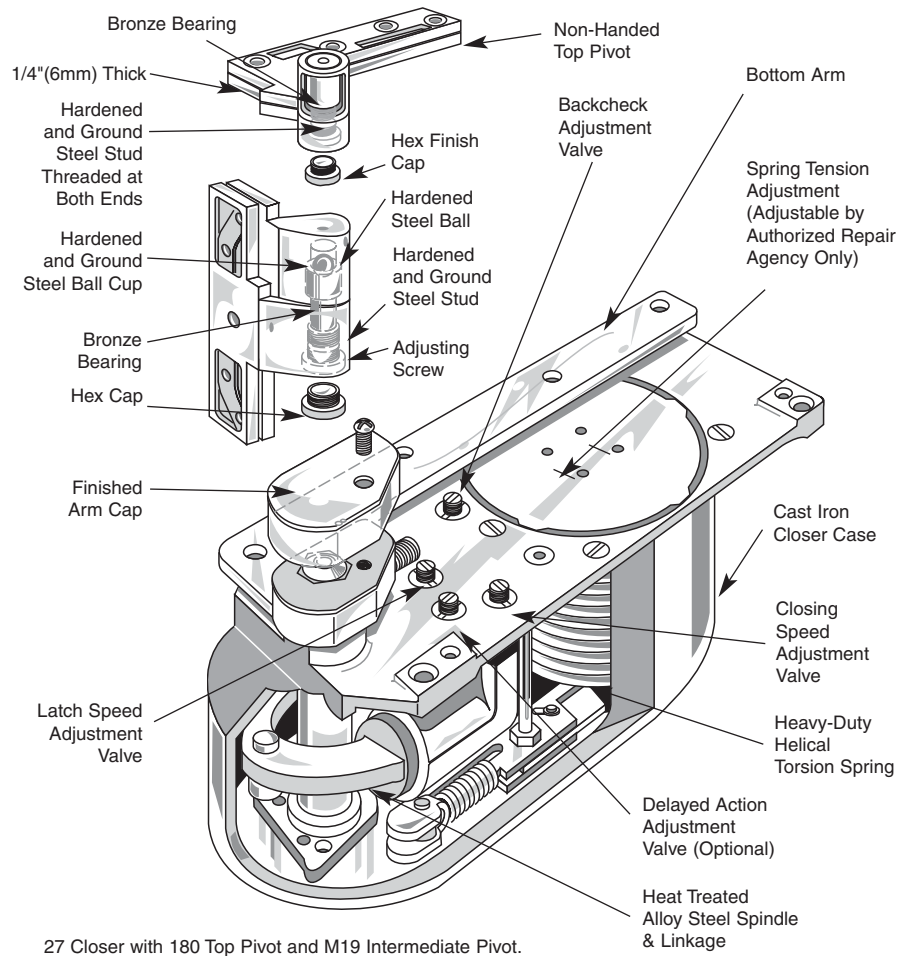
*Consult factory for sizes greater than 3/4"

3. EXPECTED FREQUENCY OF DOOR OPERATION

APPLICATION	DAILY	YEARLY	
Large department store entrance	5,000	1,500,000	
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	HIGH
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	
Office building corridor door	75	22,000	AVERAGE
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	LOW
Residential closet door	6	2,200	

FEATURES

- Floor closers are fully concealed to maintain aesthetic design of the opening.
- Full weight of door is borne by floor closer, providing trouble-free operation and long life.
- Doors up to 1,500 pounds are accommodated, allowing standard and heavy doors in a building to be hung by the same means.
- Available offset or center hung to accommodate any installation.
- Vertical adjustment provides for field adjustment of the door if required.
- Specification of heavy panels on the door face with standard offset floor closer preparation available.
- Full floor-to-ceiling concealment is offered for center hung doors, providing almost unlimited design flexibility.
- Extended spindles available to accommodate any floor condition.
- Offset models available 3/4" or 1-1/2" offset.
- Offset models available for lead-lined doors.
- Offset models available for fire door assemblies up to three hours.
- Spring tension and closing speed are field adjustable.
- Built-in fully adjustable hydraulic backcheck standard on 27 and 28.
- Available in all standard architectural finishes.



27 Closer with 180 Top Pivot and M19 Intermediate Pivot.

OPTIONS

Selective Hold-Open (SHO)

Factory-installed on 27 & 28 Series closers. Hold-open may be turned on/off.

Automatic Hold-Open (AHO)

Available on certain series closers with or without dead stop. Preset at factory for specific degree of hold-open. Degree of hold-open cannot be changed, nor can closer be made into non hold-open.

Delayed Action (DA)

Provided on barrier-free installations. Permits door to remain ajar (at 70°) for up to 30 seconds. Operates by separate valve and can be shut off if not needed. Not available on closers furnished with cold weather fluid, and not recommended for exterior applications because of weather factors. (27 & 28 series only)

Physically Handicapped (PH)

To comply with guidelines established in the American With Disabilities Act, lighter opening forces are met if closers are ordered with a PH prefix. If 5 pounds of opening on interior doors is needed, simply order PH. If 8.5# of force is needed, specify Prefix PH and suffix 8.5#.

Be advised that lower opening forces mean lower closer forces. PH products should not be ordered for exterior doors or fire rated openings. Fire/Lifesafety openings take precedence over the convenience of ADA. Securing a building is also a major concern and a lighter closer may not be strong enough to secure a latch bolt in a strike. Use care when specifying PH products.

Cold Weather Fluid (CWF)

Should be considered in installations where ground temperature is constantly below +15°F. May be used in temperatures as low as -35°F.

Sealed Closer (SC)

Used where water contact may occur. Provides gasketing and a cover plate that are epoxied around the case with the closer inside. Not available for replacement closers unless cement case is also replaced.

Fire Rated

(F) Used on labeled fire door requiring steel base pivot. PH with 3 pounds of opening force may not be used on fire doors.

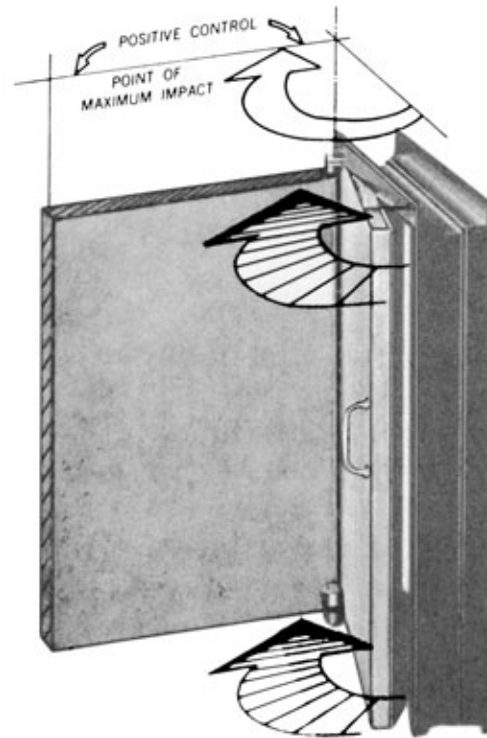
(- 20), Smoke Doors, brass base pivots

COMBINATION FLOOR CLOSER-DOOR HOLDER PACKAGES

Absolute door control - top and bottom - with a single packaged system. For high traffic volume, entrance and exit conditions. Single source responsibility saves money, simplifies specification, and eliminates coordination of templates.

Combinations Available: Dependable Rixson® 25, 27, 28 and 30-40 Series closers – teamed with rugged Checkmate® No. 1, 8 or 9 Series overhead holders – eliminate door and frame damage caused by racking and twisting.

The combination 27/28 closer-holder package cushions and dead stops the door, top and bottom, at 85°, 90°, 95° or 105°. The hold-open function is controlled by the holder and will be approximately 5° to 7° less than dead stop desired. The 27, 28, 30 and 40 closer-holder combination is coordinated to dead stop at the same degree. The impact of opening is absorbed by the shock spring in the holder at the top, and the hydraulic backcheck and dead stop in the floor closer at the bottom of the door.



SUGGESTED SPECIFICATION

Floor Closer shall be Model 27 (offset hung) or Model 28 (center hung) and shall be available for labeled fire doors and lead-lined doors (offset hung) as well as regular doors. Closer to have separate and independent and adjustable valves for closing speed, latch speed and backcheck. Independent delayed action option to be available. Model to be available for physically handicapped access as required by building codes. Closer shall be available non hold-open, or selective hold-open at 85, 90, 95 or 105 degrees. Closer to have built-in dead stop to prevent door from swinging beyond required opening degree.

FLOOR CLOSERS FOR FIRE DOOR ASSEMBLIES

Offset hung floor closers are available for fire door assemblies up to three hours (“F” Series) or 20 minute (-20 Series), are UL listed and handed. According to NFPA 80, labeled fire doors up to 60" in height shall be provided with two hinges or pivots and an additional hinge or pivot for each 30" of door height. The distance between pivots may exceed 30". Specify quantity of intermediate pivots required. Product features and templating are identical to regular floor closers and intermediate pivots. Do not use PH closers on fire door assemblies.