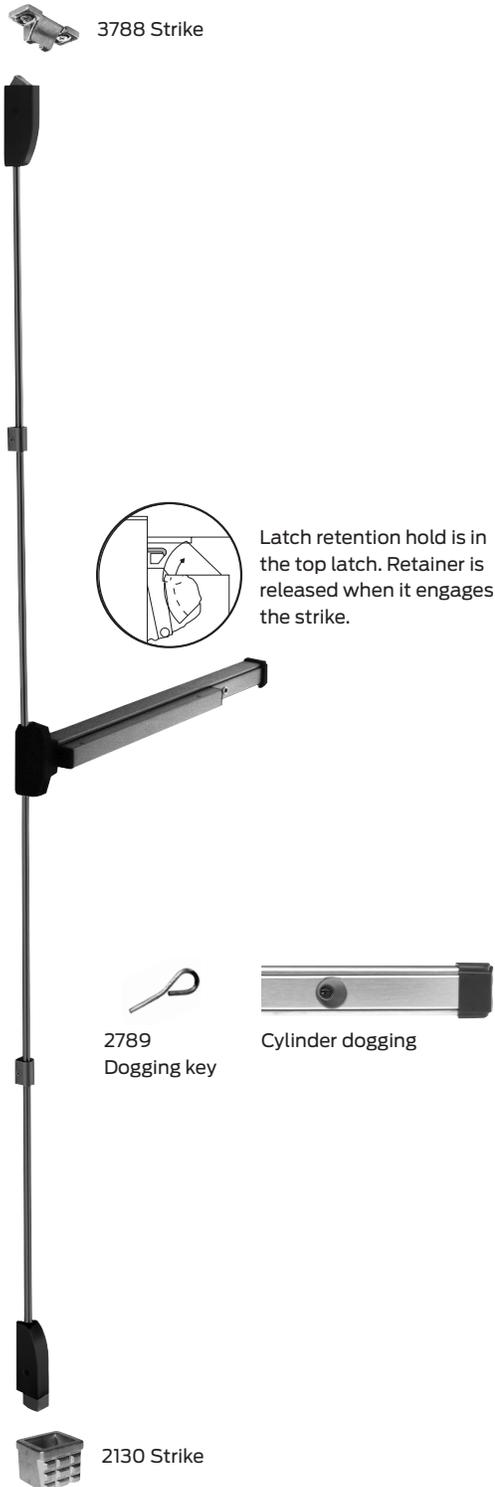


19-V Series non-handed vertical rod device

Panic exit hardware

Manufactured to the same standards as the 19 Rim, the 19-V exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The "EO" (exit only) device is ready to accept any trim function shown on page 12.



| Device & trim | ANSI type | ANSI function |
|--------------------|-----------|---------------|
| 19-V-EO | 2 or 5 | 01 |
| 19-V-DT | 2 or 5 | 02 |
| 19-V-NL | 2 or 5 | 03 |
| 19-V-K (or L) | 2 or 5 | 08 |
| 19-V-K-NL (or KIL) | 2 or 5 | 09 |

Note: For blank escutcheon specify BE.

Specifications

| | |
|------------------------|---|
| Hand: | Field reversible. |
| Functions: | All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 15 and 16. |
| Finishes: | Powder-coated aluminum-SP28; powder-coated duranodic-SP313; stainless steel US-32D. |
| Strikes: | 3788 strike is surface applied standard, 2130 strike is mortised into floor. |
| Angle bracket: | Use 4215 angle bracket in flush transom or rabbeted installations. Allows use of standard 3788 strike. |
| Latchbolt: | Top stainless steel $\frac{3}{4}$ " throw. Bottom square bolt $\frac{1}{2}$ " throw. |
| Deadlocking latchbolt: | Standard. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Use $1\frac{1}{8}$ " long mortise cylinder with standard "A" cam. |
| Stock sizes: | 3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'. |
| Doors: | $1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ ". |
| Narrow stile doors: | To $1\frac{3}{4}$ " N.S. aluminum. With control trim- $2\frac{1}{4}$ " min. stile. |
| Projection: | $2\frac{1}{2}$ " max., $1\frac{7}{8}$ " dogged. |
| Fasteners: | All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS. |
| Sex bolts: | 3-#4122 ($\frac{1}{4}$ "-20) SNB standard. Hollow core wood, light gauge hollow metal, etc. require additional sex bolts. 19-V: 6-#2729 #10-24 SNB; 19-V-LBR: 3-#2729 #10-24 SNB |
| ANSI: | Certified ANSI A156.3 2001 grade 1 standards. |
| 19-V: | Latch retention and 3788 strike top, deadbolt and 2130 flush strike bottom. |
| 19-V-LBR: | 3788 strike top. |
| Vertical rods: | Furnished to length based on $40\frac{5}{16}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering. |
| Shim kit: | For glass lites applications; $\frac{1}{4}$ " thick specify SK-19-V- $\frac{1}{4}$ ". |
| 161 cutout: | Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate. |

Trim designs

Control trim

SP28, SP313 and US-32D.

K-control



911K
BE
NL

L-control



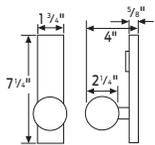
L-Control-Dane
912L
BE
L-DT
NL



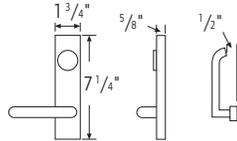
L-Control-Sutro
912L
BE
L-DT
NL



L-Control-Quantum
912L
BE
L-DT
NL



Key locks or unlocks trim. Knob retracts trim. Knob retracts latchbolt when trim is unlocked.



Lever Projection: Quantum = 3"
Sutro = 2 7/8"
Dane = 2 7/8"

Key locks or unlocks trim. Lever retracts latchbolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

DT-control

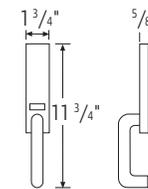


918 DT
Pull when dogged.

NL-control



918NL
Key retracts latchbolt.



9970
Can be used with all devices (not for use on wood doors).

9 1/4" center to center

2 7/8" projection

1 3/4" clearance

Cover plates



4167
3 1/4" x 15" x .050
Used with TP control & DT control
Covers 161 & 86 cutouts



4168
3 1/4" x 7 1/2" x .050
Used with EO device to cover No. 86 cutout for mortise lock



4170
3 1/4" x 7 1/2" x .050
Used with K control, DT/K control, L control, or DT/L control
Covers 161 & 86 cutouts

Key-in-lever



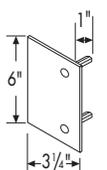
914KIL



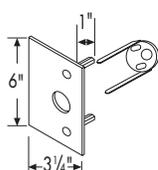
914-KIL-IC

For 1-3/4" thick doors only

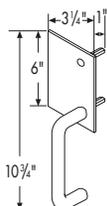
Centron trim



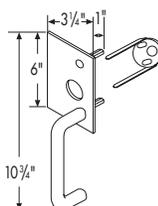
930 EO



930 C



930 DT

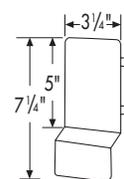


930 NL

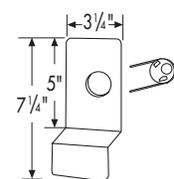


Pull only 917 DT
CTC - 5 1/2" round - 3/4" dia.
Pull when dogged.

Trident trim



920 DT



920 NL

Trim chart

Control

| Device | DT | NL | T-BE | K | K-BE | K-DT |
|---------------|-----|-----|------|----------------|------|------|
| 19-R/19-V | 918 | 918 | 910 | 911 | 911 | 911 |
| Cylinder type | — | rim | — | 1 1/8" Mortise | — | — |

| Device | Dane* | | | Sutro* | | | Quantum* | | | | | |
|---------------|----------------|------|------|----------------|------|------|----------------|------|------|----------------|------|------|
| | L | L-BE | L-DT |
| 19-R/19-V | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 912 | 912 |
| Cylinder type | 1 1/8" Mortise | — | — |

KIL

| Device | KIL* | KIL-LS/LK' | KIL-NL* | KIL-IC* |
|-----------|--------------------------|------------|--------------------------|--------------|
| 19-R/19-V | 914 | 914 | 914 | 914 |
| | Falcon "C" keyway A23160 | — | Falcon "C" keyway A23160 | Small format |

Trident trim

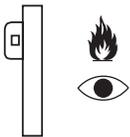
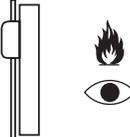
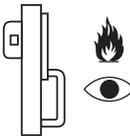
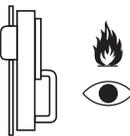
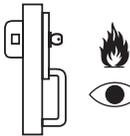
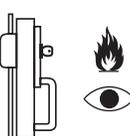
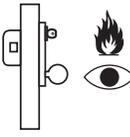
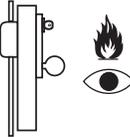
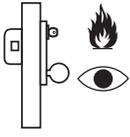
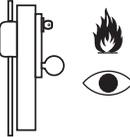
| Device | Centron | | | | |
|---------------|---------|-----|-----|-----|-----|
| | NL | DT | C | DT | NL |
| 19-R/19-V | 920 | 920 | 930 | 930 | 930 |
| Cylinder type | Rim | — | Rim | — | Rim |

* Specify hand.

Note: For "NL" night latch function on K and L add "NL" after trim number.
All locking trim except KIL furnished less cylinder.

Type and functions

These pages list all functions available for the 19 Series devices.

| | Rim devices ANSI type 1 and 4. | Vertical rod devices ANSI type 2 and 5. |
|---|--|--|
| Functions (ANSI) | (F)-19-R | (F)-19-V |
| EO or N (01) Exit only, no trim. |  19-R-EO |  19-V-EO |
| DT (02) Entrance by trim when actuating bar is dogged down.* |  19-R-DT |  19-V-DT |
| NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked. |  19-R-NL |  19-V-NL |
| K or L or KIL(08) Entrance by knob or lever. Key locks or unlocks knob. |  19-R-K or L or KIK or KIL |  19-V-K or L or KIK or KIL |
| K(NL) or L(NL) (09) or KIL (NL) Entrance by knob or lever only when released by key. Key removable only when locked. |  19-R-K (NL) or L(NL) or KIK(NL) or KIL(NL) |  19-V-K (NL) or L(NL) or KIK(NL) or KIL(NL) |



Fire exit hardware

Use "F" prefix for fire exit hardware.



Security monitor



Electric function

*Latch, device, and authorize degress monitors. (See electrified hardware catalog.)

*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.

Type and functions

Double doors

| Device & trim | Length | Top strike | Bottom strike | Min. stile | Door opening width |
|---------------|--------|------------|---------------|------------|--------------------|
| (F) 19-V | 3'0" | 3788 | 2130 | 3 1/2" | 2' 5 1/4" to 3'0" |
| (F) 19-V | 4'0" | 3788 | 2130 | 3 1/2" | 3'0" to 4'0" |

Note: For (F-) 19-V-LBR use "V" information less bottom strike. F-19-V-LBR requires use of auxiliary fire latch.

Single doors with 5/8" stop

| Device & trim | Length | Strike | Min. stile | Door opening width |
|---------------|--------|--------|------------|------------------------|
| 19-R | 3'0" | F570 | 3 1/2" | 2'5 1/4" to 3'0" |
| | | 565 | 1 3/4"* | 2' 4 3/4" to 2' 9 1/4" |
| F-19-R | 3'0" | F570 | 3 1/2" | 2'5 1/4" to 3'0" |
| 19-R | 4'0" | F570 | 3 1/4" | 3'0" to 4'0" |
| | | 565 | 1 3/4"* | 3'0" to 3'9 3/4" |
| F-19-R | 4'0" | F570 | 3 1/4" | 3'0" to 4'0" |

*For EO and NL functions only. 2- 1/4" minimum stile required for control trim.

Dimensions:

- Recommended height from finished floor - 40 5/16" at CL.
- Touchbar projections: neutral - 2 1/2" depressed - 1 7/8"
- Extension rods or longer top rods available upon request.
- Specify door height.
- Dummy touchbar available. Specify 190 DT 3' or 4'.
- Overall length: 3' 30 1/2"- 4' 42 5/8"
- Changes for minimum door size for charts on left:
- For cylinder dogging, add 2 1/4" to minimum door size.
- For exit alarm, add 4 1/2" to minimum door size.
- To fit on smaller door consult factory

Double doors with Mullion

| Device & trim | Length | Strike | Min. stile | Door opening width | Fire | Panic |
|---------------|--------|--------|------------|----------------------|-----------|--------------|
| 19-R | 3'0" | F570 | 3 1/2" | 2'5 1/4" to 3'0" | - | 29231 |
| | | 565 | 3 3/4" | 2'4 3/4" to 2'9 1/4" | - | 4023/ KR4-23 |
| | | | 3 1/8" | | - | 29231 |
| F-19-R | 3'0" | F-570 | 3 3/8" | 2'5 1/4" to 3'0" | (F)4023 | - |
| | | | 3 3/8" | | KR(F)4023 | - |
| 19-R | 4'0" | F570 | 3 1/2" | 3'0" to 4'0" | - | 29231 |
| | | | 3 3/4" | | - | 4023/ KR4-23 |
| | | 565 | 3 1/8" | 3'0" to 3'9 3/4" | - | 29231 |
| | | | 3 3/8" | | - | 4023/KR4023 |
| F-19-R | 4'0" | F-570 | 3 3/4" | 3'0" to 4'0" | (F)4023 | - |
| | | | | | KR(F)4023 | - |

¹ To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.



Door applications

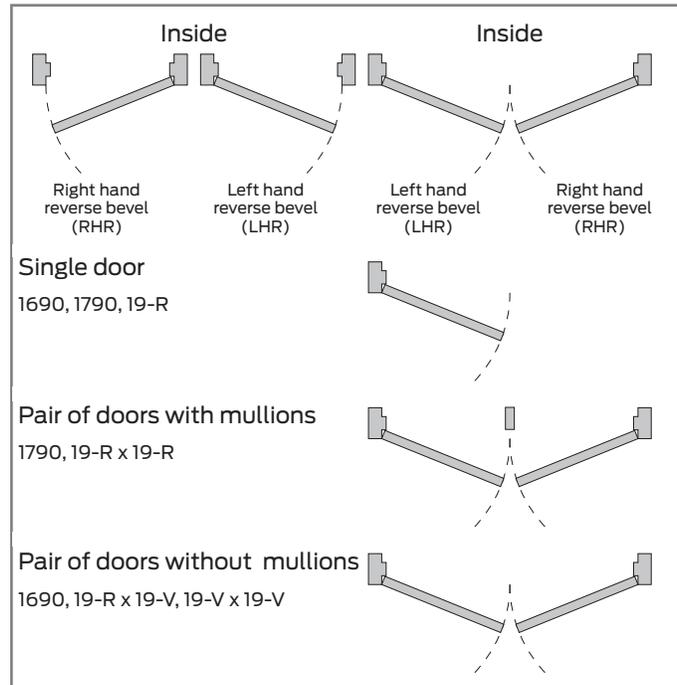
Door thickness

All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

| Number | BHMA/ANSI function |
|--------|--|
| 01 | Exit only, no trim. |
| 02 | Entrance by trim when actuating bar is locked down. |
| 03 | Entrance by trim when latchbolt is retracted by key; key removable only when locked. |
| 04 | Entrance by trim when latchbolt is retracted by key or set in a retracted position by key. |
| 08 | Entrance by knob or lever; key locks or unlocks knob or lever. |
| 09 | Entrance by knob or lever only when released by keys; key removable only when locked. |

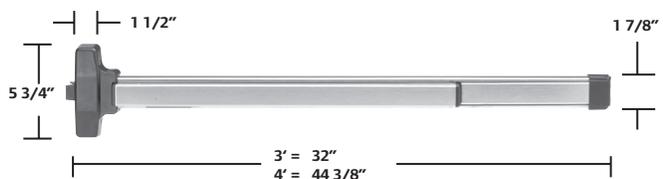
| U.S. standard | BHMA | Description |
|---------------|------|----------------------------------|
| US28 | 628 | Anodized aluminum – clear |
| DC13 | 710 | Anodized aluminium – dark bronze |
| DC35 | 711 | Anodized aluminum – black |
| P28 | 689 | Painted aluminum – silver |
| P13 | 695 | Painted aluminum – dark bronze |
| P35 | 622 | Painted aluminum – black |
| US3 | 666 | Bright brass |
| US4 | 667 | Satin brass |
| US9 | 705 | Bright bronze |
| US10 | 668 | Satin bronze |
| US10B | 703 | Oxidized satin bronze |
| US14 | 669 | Bright nickel |
| US15 | 670 | Satin nickel |
| US26 | 672 | Bright chrome |
| US26D | 702 | Satin chrome |

Door application chart



| Device | Label | Door opening | Application |
|--------------------------|---------------|------------------------|---|
| Hollow metal door | | | |
| F-19-R | 1 1/2 hr. "B" | 4' x 7'2" 8' x 7'2" | Single, pair, same egress w/ F-4023 mullion and KR-F-4023 |
| F-19-V | 1 1/2 hr. "B" | 8' x 10' | Pair, double egress, same egress |
| F-19-V-LBR | 1 1/2 hr. "B" | 8' x 8' | Pair, double egress, same egress |
| Wood door | | | |
| F-19-V-LBR | 20 min. | 8' x 8' | Wood or comp., pair, double egress, same egress |
| F-19-R | 1 1/2 hr. "B" | 4' x 7'2" 8' x 7'2" | Single, pair, same egress w/ F-4023 mullion and KR-F-4023 |

19 Device dimensions:



Strikes

1690 Concealed vertical rod device



PB48
Top strike for 1690 device. Packed with three 0.050" thick shims. 1 1/16" x 1 1/16" x 7/16" (H x W x D)

1790 Rim device



STK45
Strike for inactive leaf, pair of doors with 1790 device. 3 1/4" x 1 5/16" x 1/4" (H x W x D)



TD35
Strike for single doors, 1790 device. Includes 1/8" shim. 3" x 2" x 1/2" (H x W x D)

(F) 19-R Rim devices



F570
Standard strike. 2 5/8" x 1 1/4" x 13/16" (H x W x D)



F490
Optional strike. 2 5/8" x 1 1/4" x 7/8" (H x W x D)



565
Adjustable surface mounted for use with blade or applied stops. Mounts flush for 1/2" stop height.



571/571A
Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 5/16" backset. 571A is trimmer and projects less into opening.

(F) 19-V Surface vertical rod devices



3788
Top strike for 19-V.



2130
19-V bottom strike for grouting into concrete or masonry floors.



4155
19-V optional bottom strike.



2126A
19-V optional bottom strike.



4215
Angle bracket for 19-V devices flush transom applications. Does not require elimination of latch retention feature.



Extension rods
Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.

Accessories



F-4023 Shown

Removable mullion

- Removable mullions are easily removed and reinstalled for full width access
- Increased security and tighter closure
- Minimizes door warp age and sag
- Regulates the traffic flow in-and-out
- Rim devices are used on both leaves, attaining a perfect symmetrical opening
- Mullion assembly consists of a mullion, top and bottom fittings and mounting package
- Mullion can be cut on the job for doors under stock lengths

2923, (F)4023, (F)KR4023 Mullion

These steel mullions can be used with the 19-R and F-19-R devices. Soffit adapters are available for the 2923 and 4023 mullions. The F4023 and F-KR4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations. Strikes are not included with mullion and should be specified with the 19-R or F-19-R device, see page 11 for strike information. KR mullions require 1 1/4" mortise cylinder with standard "A" cam. The mullion fittings are made from ductile iron. The (F)4023 and (F)KR4023 are 2" wide and 3" deep. The 2923 is 1 1/2" wide and 2 1/2" deep. Furnished in prime coat.

Mullions



RM 170



Mullion brackets



525 Mullion stabilizer for RM170

RM 170 Removable mullion

RM 170 for use with 1790 series. Comes complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use with stiles as narrow as 1 3/4". Made of aluminum, available in anodized aluminum or bronze finishes. Mullion is 3 1/2" deep, 1" wide on door side, and 1 5/8" at the widest point.

Mullion strikes



STK170

Adjustable mortise strikes (pair).

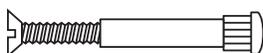
2 7/8" tall
1 3/4" wide
1" thick

Sex bolts

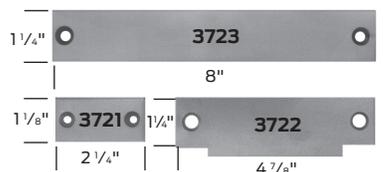
Sex bolts are available for 1 3/4" door thickness. Screws to fit are available in 3/4" and 2" lengths to cover a wide range of door thicknesses.

2729 (#10-24 thread)

4122 (1/4"-20 thread)



Filler plates



3721/3722/3723

Steel filler plates

3721 Cylindrical lock frontfiller

3722 ASA strike filler - set no. SC for 161 cutout

3723 Mortise lock front filler

3722 ASA strike filler - set no. SM for 86 cutout

