

2. Closer Holder Release Devices:

- a. Corbin Russwin Architectural Hardware; Div. of Yale Security Inc.
- b. Dor-O-Matic
- c. Norton Door Controls; Div. of Yale Security Inc.
- d. Rixson-Firemark, Inc.; Div. of Yale Security Inc.
- e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc.
- f. Yale Security Inc.; Div. of Williams Holdings

C. Standards: Comply with the following:

1. Closers: BHMA A156.4.
2. Closer Holder Release Devices: BHMA A156.15.

D. Surface Closers: BHMA Grade 1

E. Concealed Closer: BHMA Grade 1

F. Certified Products: Provide door closers listed in BHMA's "Directory of Certified Door Closers."

G. Hold-Open Closers/Detectors: Coordinate and interface integral smoke detector and closer device with fire alarm system.

H. Flush Floor Plates: Provide finish cover plates for floor closers, unless thresholds are indicated. Match door hardware finish, unless otherwise indicated.

I. Recessed Floor Plates: Provide recessed floor plates with insert of floor finish material for floor closers, unless threshold are indicated. Provide extended closer spindle to accommodate thickness of floor finish.

J. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.10 CLOSERS

A. Traditional Surface Closers: Rack-and-pinion hydraulic type: with adjustable sweep and latch speeds controlled by key-operated valves; with forged-steel main arm; enclosed in a cast-aluminum alloy shell; complying with the following:

1. Mounting: as indicated in hardware sets. Install all closers on non-public side of door opening.
2. Backcheck: Adjustable, effective between 60 and 85 degrees of door opening.