



SECTION 08 71 50

DOOR HARDWARE – CLOSER HINGES

Waterson Closer Hinges combine up to four door hardware functions into a single attractive and economical product: 1) Hinge, 2) Closer, 3) Hold-Open, and 4) Door Stop. This guide specification includes our K51 Series closer hinges that are fabricated from stainless steel for outstanding performance and harsh environments. Models with all-mechanical actions withstand 1,000,000 cycles and can be used with 3-hour fire-rated doors. Models with hybrid mechanical and hydraulic actions enhance control for quieter, softer closing.

We also offer stainless steel closer hinges engineered especially for gates and glass doors, plus aluminum closer hinges for lightweight interior doors. Contact Waterson for additional information.

**SELECTING THE RIGHT SETS:** Each door requires a set of closer hinges that may include several different closer hinge models, depending upon the door's requirements. **See our product data sheet for selection guidance** or contact a Waterson sales rep for assistance.

**EDITING SPECIFICATION:** Text from guide specification should be copied into a complete door hardware specification section. Edit to include only requirements pertinent to Project. Coordinate with door and hardware schedules to avoid duplicating or conflicting requirements.

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PART 1 - **GENERAL**

1.1 **SUMMARY**

- A. Products Furnished But Not Installed Under This Section: Door closer hinges.
- B. Related Sections:
  - 1. [08 40 00 – Entrances and Storefronts.]
  - 2. [08 71 00 – Door Hardware.]

1.2 **REFERENCES**

- A. Americans with Disabilities Act (ADA).
- B. Builders Hardware Manufacturers Association (BHMA):
  - 1. BHMA 156.7 - Template Hinge Dimensions.
  - 2. BHMA 156.17 – Self Closing Hinges and Pivots.
- C. UL: [GVEV.R26997 (US).] [ULC GVEV7.R26997 (Canada).]

1.3 **SUBMITTALS**

- A. Submit product data sheets and installation instructions.
- B. [Samples: [\_\_\_\_\_].]

## PART 2 - PRODUCTS

### 2.1 CLOSER HINGES

- A. Manufacturers:
1. Basis of Design: Waterson (www.watersonusa.com).
  2. Substitution:
    - a. [Not accepted.]

Retain above or below. Note that Waterson closer hinges are produced under worldwide patents. We are not aware of other products that provide the same high level of performance and tested compliance with standards.

- b. [Submit substitution request prior to bidding and in accordance with Division [00] [01]. Provide product samples, product information, and test reports and listings substantiating performance.]

- B. Performance: Comply with:
1. Fire Resistance: Certified by UL for use on doors with up to three-hour fire ratings.
  2. Size: BHMA A156.7.
  3. Durability: BHMA A156.17 Grade 1 (1,000,000 cycles).
  4. Accessibility: ADA.

Please **see our product data sheet for selection guidance** or contact Waterson for assistance specifying types, sizes, and sets.

- C. Types and Sizes:
1. Full Mortise Closer Hinges: Provide Waterson K51M Series:
    - a. [4 x 4 inches (BHMA A40M).]
    - b. [4.5 x 4.5 inches (BHMA A45M).]

In the popular 5 x 5 inch size, Grade B is standard. Grade M has thicker leaves and can be used for extra strength or to match existing door and frame preparations.

- c. [5 x 5 inches (BHMA [A50B] [A50M]).]
    - d. [6 x 6 inches (BHMA A60M).]
  2. Swing Clear Closer Hinges: Provide Waterson K51L Series:
    - a. [4.5 x 4.5 inches (BHMA A45M5).]
    - b. [5 x 4.5 inches.]

Sets with an "HA" in the configuration are for *interior* use only.

- D. Sets:
1. Doors with Three Closer Hinges:
    - a. [Set A3: Configuration SA.SA.SA1.]
    - b. [Set B3: Configuration DS.HA.SA1.]
    - c. [Set C3: Configuration SB.SA.SA1.]
    - d. [Set D3: Configuration DS.HA.SB.]
  2. Doors with Four Closer Hinges:
    - a. [Set A4: Configuration DS.SA.SA.SA1.]

- b. [Set B4: Configuration DS.SA.HA.SA1.]
- c. [Set C4: Configuration SA.SB.SA.SA1.]
- d. [Set D4: Configuration DS.SB.HA.SA1.]

E. Corners: [Square.] [[1/4 inch] [5/8 inch] radius.]

Type 304 is standard. Type 316 provides additional corrosion resistance. Type 316L is a marine grade product for extreme environments; allow more time for delivery.

F. Materials: Type [304] [316] [316L] stainless steel.

G. Finish:

1. [Satin Stainless Steel: BHMA 630 (US32D)]
2. [Flat Black: BHMA 631 (US 19), powder coating.]
3. [Dark Satin Bronze: BHMA 695 (US 10B), powder coating.]
4. [Satin Brass: BHMA 731 (US 4), physical vapor deposition (PVD) coating.]

H. [Door stops. [Provide at locations indicated.] [Provide where necessary to prevent door from contacting adjacent surfaces or to limit maximum opening to 120 degrees.]

I. [Weather-resistant caps; provide in exterior and wet areas.]

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Comply with manufacturer instructions and requirements of related sections.
- B. Adjust to comply with ADA requirements.

### END OF SECTION

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