



# K-81D Fire Hydrant

**AWWA C502**



**K8103 DIRT SHIELD**

Cast Iron ASTM A-126, Class B  
One-piece component deflects moisture and dust exposure. Affords protection against freezing conditions ensuring operational efficiency.

**K8105 STEM LOCK NUT "O" RING**

Buna N, D2000

**K8104 STEM LOCK NUT**

Bronze Alloy CDA 84400, ASTM B-584  
Non-corrodible bronze nut secures stem nut for operating thrust. Hold down nut provides additional weather protection with threading attachment to hydrant cap and large O-ring seal.

**K8107 HYDRANT CAP / BONNET**

Cast Iron ASTM A-126, Class B  
Single unit design contains factory applied grease. Design also allows the choice of oil lubrication. Two o-ring seals at penetration point of operating stem prevent lubricant to escape and excludes water entry of chamber when hydrant is pressurized.

**K8109 HYDRANT CAP GASKET**

Cloth Inserted Rubber, D2000

**K8112 BRONZE STEM SLEEVE "O"-RING**

Buna N, D2000  
Seal between brass ferrule and stem.

**K8114 UPPER STEM**

H.R. Steel A588  
High strength steel stem has rugged acme threads at top end to match threads in bronze operating nut. Brass stem sleeve is machine fitted on segment that penetrates oil reservoir providing smooth, non-corrodible bearing surface for double O-ring seals. O-ring insert between sleeve and stem provides additional leakage protection.

**K8115 UPPER BARREL / NOZZLE SECTION**

Cast Iron ASTM A-126, Class B  
Molded from durable cast iron and available with either two hose and one pumper nozzle or two hose nozzles.  
Above ground hydrant assembly may be rotated full 360° on the standpipe flange to improve alignment to curb. Simply loosen flange bolts, rotate and retighten.

**K8122R COUPLING PINS (2)**

Stainless Steel, 18-8  
Updated pin design uses spring loaded pin. No need for clevis pins, nuts, or other securing device.

**K8118 BOLTS & NUTS (8)**

Steel, (Zinc Plated)

**K8120 O-RING**

Buna N, D2000  
O-ring seal provides ease of repair and 360° nozzle facing.

**K8124 LOWER BARREL**

Ductile Iron ANSI 21.50, 21.51

**K8136 DRAIN VALVE**

Bronze, B584 C954/955-AWWA GR E  
Includes rubber facing that provides positive closure of bronze bushed drain ports during operation. After operation, the drain valve automatically drains all water from the barrel of the hydrant preventing cold weather freeze-up. Drain ports are purged during first three operating turns on opening and again on closing.

**K8137 DRAIN VALVE FACING WITH INSERT**

Buna N, Stainless Steel (D2000 / A276 (304))  
Unique pressure activated drain valve assures positive shut off. The higher the pressure, the tighter the seal. Automatically compensates for wear due to usage. Does not rely on interference fit.

**K8127 SEAT RING INSERT / RETAINER RING**

Bronze K584 C836/844-AWWA GR A  
Permanently affixed to elbow with O-ring seal. Provides bronze to bronze interface for easy seat removal.

**K8129 DRAIN TUBE**

Naval Brass B21-CDA 464

**K8133 DRAIN VALVE PIN**

304 Stainless Steel

**K8134 ELBOW**

Ductile Iron ASTM A-536, Grade 70-50-5  
Fusion bonded epoxy coating inside and out. Meets AWWA C550 standards. 5 1/4" & 4 1/2" Mechanical Joint and Flange elbows available in 6" & 4" connections. 5 1/4" Tyton Joint / push-on available in 6" only.

**AWWA**

500 lbs. test pressure  
250 lbs. working pressure

**ULFM**

400 lbs. test pressure  
175 lbs. working pressure

The Guardian K81D Hydrant meets or exceeds all the latest provisions of AWWA, and UL 246-FM 1510 specifications (options are limited on UL/FM models).

**K8101 ALEMITE FITTING**

Stainless Steel A276 (304)  
Subset grease fitting provides convenient access to lubricate operating threads for corrosion protection.

**K8102 OPERATING STEM NUT**

Bronze Alloy CDA 84400, ASTM B-584

**K8146 ALLEN HEAD SET SCREW**

Stainless Steel A276 (410)  
Drilled and tapped hole in operating stem nut with stainless steel set screw. Secures hold down nut to hydrant cap.

**K8106 THRUST WASHER**

Nylatron GS MIL LP-410  
Antifriction bearing at thrust collar reduces operating torque for smoother open/close cycles.

**K8108 CAP BOLTS & NUTS (6)**

Steel (Zinc Plated) A307 AE Grade 2

**K8110 STEM FERRULE**

Naval Brass B21-CDA 464

**K8111 HYDRANT CAP "O"-RINGS (2)**

Buna N, D2000

**K8144 HOSE / PUMPER NOZZLE CAP**

Cast Iron ASTM A-126, Class B

**K143 HOSE / PUMPER NOZZLE CAP GASKET**

Neoprene, D2000

**K8141 HOSE / PUMPER NOZZLE RETAINING SCREW**

Stainless Steel A276 (304)

**K8140 HOSE NOZZLE**

K8142 STEAMER / PUMPER NOZZLE

Bronze, B584 C83600

Tamper resistant quarter turn hose and steamer nozzles. Designed for ease of maintenance and field replacement

**K8145 HOSE / PUMPER NOZZLE "O"-RING**

Buna N, D2000

**K8139 NOZZLE CAP CHAIN**

Steel, A108

**K8138 "S" HOOK**

Steel, A108

**K8116 STEM BREAK COUPLING**

Cast Iron ASTM A-126, Class B  
Designed to break from collision without damage to main valve or lower rod. Bottom half of coupling is designed to accept short disassembly wrench.

**K8119 BREAKING RING / TRAFFIC FLANGE (2 HALVES)**

Cast Iron ASTM A-126, Class B  
Full 360° adjustment. Breaking ring on top for ease of replacement. Upon vehicular impact, safety flange ring fractures to allow above ground hydrant assembly to separate cleanly from standpipe without damage to internal parts or loss of water. Repair is easily accomplished with economical field repair kit.

**K8123 LOWER STEM**

H.R. Steel A588

**K8135 ELBOW BOLTS AND NUTS (8)**

304 Stainless Steel

**K8125 ELBOW GASKET**

Cellulose Fiber, FED F33947M4

**K8126A SEAT RING UPPER "O"-RING**

Buna N, D2000

**K8128 SEAT RING**

Bronze K584 C836/844-AWWA GR A

**K8130 SEAT RING LOWER "O"-RING**

Buna N, D2000

**K8131 MAIN VALVE**

SBR with Steel Insert  
Available in 4 1/2" and 5 1/4".

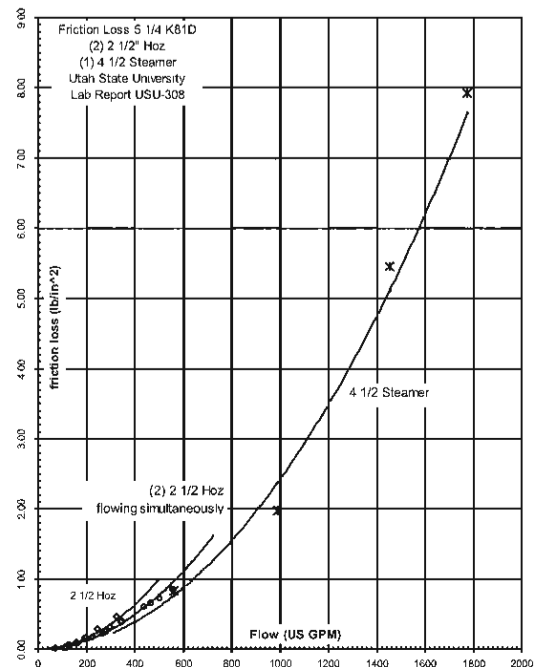
**K8132 BOTTOM PLATE**

Cast Iron ASTM A-126, Class B  
Single component cast iron main valve bottom plate compresses rubber seat against drain valve and securely attaches valve assembly to lower stem. Bottom plate is coated with same fusion bonded epoxy as applied on elbow.

NOTE: DRAWING SHOWS 5 1/4" MAIN VALVE OPENING. SOME PART DIFFERENCES ON 4 1/2 MAIN VALVE OPENING.

**KENNEDY VALVE**

A DIVISION OF MCWANE, INC.  
www.kennedyvalve.com  
2007



## The Kennedy Guardian K-81D

Fire Hydrants have been used in fire protection for over 200 years. A.W.W.A. C502 was developed in 1913 as a standard for the manufacture and use of dry barrel hydrants. Kennedy has established itself as a leader in the industry with manufacturing experience dating back to 1877. Many of the early hydrants are in use today.

Kennedy's most recent design is the Guardian. Based on a simple design, it is easy to install, maintain and repair. The Guardian sets a standard for quality in the industry and meets or exceeds all requirements for A.W.W.A. C502 latest revision, and is UL listed and FM approved.

K-81D Meets or exceeds requirements of A.W.W.A. C-502 and is UL listed and FM approved.

K-81A Meets or exceeds requirements of A.W.W.A. C-502.

## Kennedy Monitor Hydrant K81AM

### FEATURES

- 1) MEETS or EXCEEDS ALL REQUIREMENTS OF AWWA C-502.
- 2) 5 1/4" MAIN VALVE OPENING.
- 3) EXCELLENT FLOW CHARACTERISTICS.
- 4) MONITOR ELBOW CAN BE POSITIONED INDEPENDENTLY OF THE UPPER BARREL.
- 5) EXISTING HYDRANTS CAN BE RETROFITTED EASILY AND AFFORDABLY.
- 6) MONITOR ELBOW IS AVAILABLE WITH EITHER 3" OR 4" ANSI DRILLING WITH THE SAME LARGE DISCHARGE ORIFICE

### APPROVALS:

- 3" FLANGE – UL/FM APPROVED
- 4" FLANGE – FM ONLY
- MONITOR HYDRANT CAN BE MAINTAINED THROUGH THE HYDRANT CAP WITHOUT EXCAVATION.

### Options:

#### Upper Barrel Configurations

- 1 Steamer & 2 Hose Nozzles
- 2 Hose Nozzles
- 2 Steamer Nozzles
- 1 Steamer & 3 Hose Nozzles

#### Handwheel Operation – 16" ø

#### Inlet Connections

- 6" Mechanical Joint, Flanged or Push-on
- 6" ANSI Straight Shoe
- 6" 250# Raised Face Elbow
- 8" Mechanical Joint or Flanged Elbow

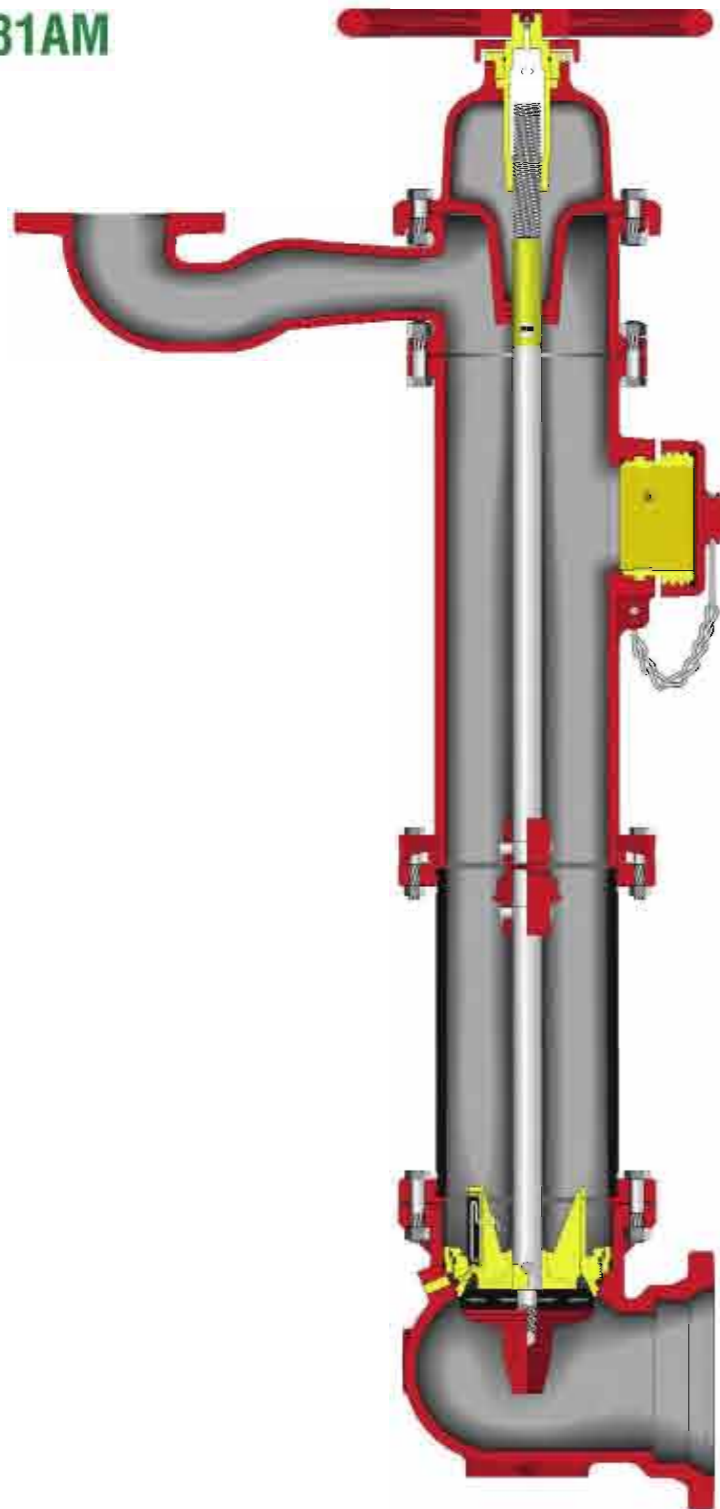
#### 2 1/2" Size

#### Independent Hose Gate Valves

- Bolt-on/Figure 109xNS
- Screw-on/Figure 109xMN

#### Salt Water Protection

- Fusion Bonded Coatings
- Stainless Steel Stems & Fasteners



## PARTS & ACCESSORIES



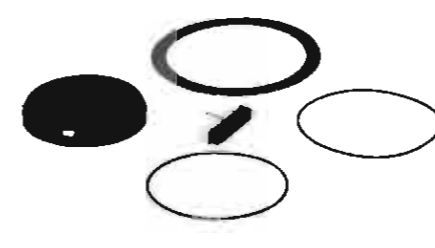
### K8150 EXTENSION KIT

Conveniently packaged including all necessary parts to raise hydrant in any increment of 6". Specify if hydrant size is 4-1/2" or 5-1/4".



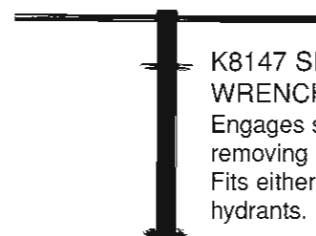
### K8149 TRAFFIC REPAIR KIT

Available for 4-1/2" or 5-1/4" hydrant and packaged with all components needed to restore hydrant to service following collision.



### MAIN VALVE REPAIR KIT

Available for 4-1/2" or 5-1/4" hydrant and packaged with all components needed to repair damaged valve assembly.



### K8147 SEAT REMOVAL WRENCH

Engages stem coupling for removing main valve seat. Fits either 4-1/2" or 5-1/4" hydrants.



### K8155 STOP NUT WRENCH



### CENTERING SPIDER



### K8148 PUMPER & HOSE NOZZLE WRENCHES, NOZZLES AND O-RINGS

Slots engage drive lugs in nozzle I.D. for removal. Quarter turn nozzles are left hand. Specify nozzle thread specification if other than National Standard. NOTE: Order nozzle wrenches by I.D.



### TAMPER RESISTANT GUARDIAN SHIELD



### "SCREW-ON" IRON HOSE GATE VALVE



### "BOLT-ON" IRON HOSE GATE VALVE



### K-81A WITH "STORZ" OUTLET

1/4 turn hose to hydrant connection. Alleviates confusion if multiple steamer threads are used in your area. Available in 4" and 5" connections.



## KENNEDY VALVE

A DIVISION OF MCWANE, INC.  
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## KENNEDY GUARDIAN K-81D FIRE HYDRANT



- Time Tested
- Proven Service
- Reliable Performance



PROUDLY



MADE IN ELMIRA, NEW YORK  
USA