



# GUARDIAN K-81D HYDRANT AWWA/ULFM KENNEDY VALVE



Division of McWane, Inc.

**K8103 DIRT SHIELD**  
Cast Iron ASTM A126, Class B  
One-piece component deflects moisture and dust exposure. Affords protection against freezing conditions ensuring operational efficiency.

**K8104 STEM LOCK NUT "O" RING\***  
Viton, ASTM D2000

**K8105 STEM LOCK NUT**  
ASTM B584 C83600/C84400  
min. yield strength 14 ksi  
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 A126, 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 O-RING\***  
Buna N, ASTM D2000

**K8112 BRONZE STEM SLEEVE "O"-RING**  
Buna N, ASTM D2000  
Seal between brass ferrule and stem.

**K8114 UPPER STEM**  
Cold Rolled Steel ASTM A108 C1018  
High strength steel stem with permanently installed, machined fitted, brass sleeve (ferrule) that penetrates the Cap / Bonnet, providing smooth, non-corrodible bearing surface for the double O-ring seals.

**K8115 UPPER BARREL / NOZZLE SECTION**  
Cast Iron ASTM A126, Class B  
Molded from durable cast iron and available with either two hose and one pumper nozzle or two hose nozzles (Special configurations available).

Above ground hydrant assembly may be rotated full 360° on the standpipe flange for desired alignment to the curb. Simply loosen the flange bolts, rotate and retighten.

**K8122R COUPLING PINS (2)**  
Stainless Steel, 302 HQ  
Updated pin design uses spring loaded pin. No need for clevis pins, nuts, or other securing device. No tools required.

**K8118 BOLTS & NUTS (8)**  
Steel, (Zinc Plated) ASTM A307/SAE Grade 2

**K8120 O-RING**  
Buna N, ASTM D2000  
O-ring seal provides ease of repair and 360° nozzle positions.

**K8124 LOWER BARREL**  
Ductile Iron ANSI/AWWA C151/A21.51

**K8136 DRAIN VALVE\***  
Aluminum Bronze ASTM B806 C95400/C95500  
Includes pressure activated 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 ASTM D2000, ASTM 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 ASTM B584 C83600  
Permanently affixed to elbow with O-ring seal. Provides bronze to bronze interface for easy seat removal.

**K8129 DRAIN TUBE**  
Bronze ASTM B135 C33000

**K8133 DRAIN VALVE PIN**  
Stainless Steel, 410/416

**K8134 ELBOW**  
Ductile Iron ASTM A536, 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 and UL/FM  
500 lbs. test pressure  
250 lbs. working pressure

The Guardian K-81D Hydrant meets or exceeds all the latest provisions of AWWA C502, and UL 246-FM 1510 specifications (options are limited on UL/FM models).

NO. OF TURNS TO OPEN: 15½

\* Recommended Spare Parts

**K8101 ALEMITE FITTING**  
Stainless Steel ASTM A276 (304)  
Recessed grease fitting provides convenient access to lubricate operating threads for corrosion protection.

**K8102 OPERATING STEM NUT\***  
Bronze ASTM B584 C83600/C84400  
min. yield strength 14 ksi

**K8146 ALLEN HEAD SET SCREW**  
Stainless Steel ASTM A276 (410)  
Drilled and tapped hole in hold down 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) ASTM A307/SAE Grade 2

**K8110 STEM FERRULE**  
Brass ASTM B135 C26000

**K8111 HYDRANT CAP "O"-RINGS (2)\***  
Buna N, ASTM D2000

**K8144 HOSE / PUMPER NOZZLE CAP**  
Cast Iron ASTM A126, Class B

**K8143 HOSE / PUMPER NOZZLE CAP GASKET**  
Neoprene, ASTM D2000

**K8141 HOSE / PUMPER NOZZLE RETAINING\* SCREW**  
Stainless Steel ASTM A276 (304)

**K8140 HOSE NOZZLE**

**K8142 PUMPER / STEAMER NOZZLE**  
Bronze, ASTM 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, ASTM D2000

**K8139 NOZZLE CAP CHAIN**

Steel, ASTM A108

**K8138 "S" HOOK**

Steel, ASTM A108

**K8116 STEM BREAK COUPLING**

Cast iron ASTM A126, 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 A126, 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**  
Cold Rolled Steel ASTM A108 C1018

**K8135 ELBOW BOLTS AND NUTS (8)**  
18-8 Stainless Steel, ASTM F593C/F594

**K8125 ELBOW "O"-RING\***  
Buna N, ASTM D2000

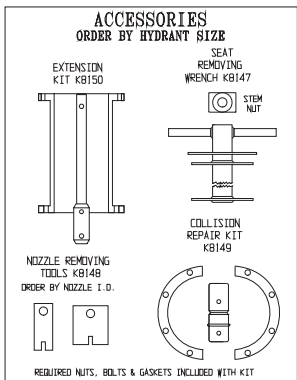
**K8126A SEAT RING UPPER "O"-RING\***  
Buna N, ASTM D2000

**K8128 SEAT RING\***  
Bronze ASTM B584 C83600

**K8130 SEAT RING LOWER "O"-RING**  
Buna N, ASTM D2000

**K8131 MAIN VALVE\***  
EPDM with Steel Insert ASTM D2000  
Available in 4 1/2" and 5 1/4".

**K8132 BOTTOM PLATE**  
Cast Iron ASTM A126, 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 and meets AWWA C550 coating.



KENNEDY



KENNEDY  
ELMIRA, NY  
A W W A  
K81-A

MARKING FRONT HALF UPPER OF AWWA ONLY HYDRANTS

OPEN DIRECTION ON DIRT SHIELD

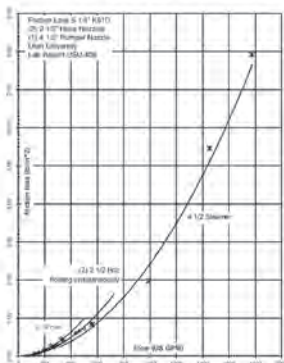


20 11  
CURRENT YEAR ON FRONT

5  
1/2" SIZE

KENNEDY  
ELMIRA, NY  
A W W A  
250 CWP

MARKING BACK HALF ALL UPPIERS



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

**KENNEDY VALVE**  
A DIVISION OF MCWANE, INC.

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