Kennedy Fire hydrants have been used in fire protection for over 100 years. A.W.W.A. C502 was developed in 1913 as a standard for the manufacture and use of dry barrel hydrants. Kennedy Valves U.S.A. has established itself as a leader in the industry with manufacturing experience dating back to 1905. Many of the early hydrants are in use today. Kennedy’s Guardian fire hydrant is reliable, simply design, easy to install and easy to maintain.

**SPECIFICATIONS**

**Sizes:** Flanged 6” ANSI 150 FF / DN150 PN 16

**Working Pressure:** 250 PSIG

UL Listed and FM approved. Meets or exceeds AWWA C 502 standards

Meeting NFPA connection requirements

Traffic Breakable Flange, 360 Degree Adjustable upper Barrel

Cast Iron / Ductile Iron Barrels with Bronze Nozzles and Plug

Coating: Fusion Bonded Epoxy and Polyester

**Models**

K81D: UL/FM AWWA 502

K81A: AWWA 502

K81AM: UL/FM AWWA Monitor Flanged

**Upper Barrel Configurations**

Standard: 1 Pumper & 2 Hose Nozzles

Options: 2 Hose Nozzles

: 2 Pumper Nozzles

: 1 Pumper & 3 Hose Nozzles

**Inlet Connections**

Standard: 6” Flanged 6” ANSI 150 or DN 150 PN 16 FF

Options: 6” Mechanical Joint, Push-on or Tyton Ring Type

6” 250# Raised Face Elbow

4” Flanged , Mechanical Joint, Push-on or Tyton Ring Type

8” Mechanical Joint or Flanged

**Hose Outlets**

Standard: 2 X 2 ½” NST Threaded Hose connection

Options: BS 336 Threads, Instantaneous

**Pumper Nozzle:**

Standard: 4” or 4 ½” NST Threaded Storz outlet optional

Couplings, Screw on Gate valves

**Test Pressure**

Seat Test: 500 PSI

Body Hydraulic: 500 PSI

Remarks: Options are limited to UL/FM models. Please check with us prior to ordering.
GUARDIAN K81D FEATURES

• Optional warranty up to 10 years on standard design upon request
• Optional trim for salt water application on request
• NSF certified epoxy coating on wetted DI parts
• Anticorrosion protection by internal and external fusion bonded epoxy coating and polyester coatings
• Drain ports to drain all water after the operation preventing any possible corrosion and cold weather freeze up
• Automatically compensates for wear due to usage and does not rely on interference fit
• Proven main valve design offering bubble tight shut-off
• Number of turns for fully open the hydrant is 15 ½ only
• Optional Extension kit to increase trench length by 6” increment
• All K81 hydrants exceed the flow requirements of AWWA C502, UL246 and FM1510
• Antifriction bearing at thrust collar for smooth operation and low operating torque
• Traffic flange features avoiding any leakage in case of impact without damaging the main valve
• Easy to use and easy to maintain
• Traffic flange features avoiding any leakage in case of impact without damaging the main valve
• All K81 hydrants exceed the flow requirements of AWWA C502, UL246 and FM1510
• Optional Extension kit to increase trench length by 6” increment
• Number of turns for fully open the hydrant is 15 ½ only
• Proven main valve design offering bubble tight shut-off
• Unique pressure activated drain valve assures positive shut off; Higher the pressure tighter the seat
• Automatically compensates for wear due to usage and does not rely on interference fit
• Drain ports to drain all water after the operation preventing any possible corrosion and cold weather freeze up
• Anticorrosion protection by internal and external fusion bonded epoxy coating and polyester coatings
• NSF certified epoxy coating on wetted DI parts
• Optional trim for salt water application on request
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FEATURES
Kennedy Guardian Fire hydrants have many additional features as indicated below:
• Easy to use and easy to maintain
• Traffic flange features avoiding any leakage in case of impact without damaging the main valve
• Antifriction bearing at thrust collar for smooth operation and low operating torque
• All K81 hydrants exceed the flow requirements of AWWA C502, UL246 and FM1510
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• Anticorrosion protection by internal and external fusion bonded epoxy coating and polyester coatings
• NSF certified epoxy coating on wetted DI parts
• Optional trim for salt water application on request
• Optional warranty up to 10 years on standard design upon request

ITEM NO. DESCRIPTION MATERIAL ASTM SPEC
8101 ALEMITE FITTING STAINLESS STEEL A276 (304)
8102 OPERATING STEM NUT BRONZE B584 C84400/AWWA GRADE A
8103 DIRT SHIELD CAST IRON A126 CLASS B
8104 STEM LOCK NUT BRONZE B584 C84400/AWWA GRADE A
8105 O-RING RUBBER D2000
8106 THRUST WASHER NYLATRON GS MIL LP-410
8107 HYDRANT CAP CAST IRON A126 CLASS B
8108 CAP BOLTS & NUTS STEEL (ZINC PLATED A307/SAE GRADE 2
8109 BONNET O-RING RUBBER D2000
8110 STEM FERRULE BRASS B135 C26000
8111 O-RING BUNA-N (SYN. RUBBER) D2000
8114 UPPER STEM COLD DRAWN STEEL A108 C1018/C1020
8115 UPPER BARREL CAST IRON/DUCTILE IRON A125 CLASS B/ASTM 536 70-50-5
8116 STEMBREAKER COUPLING CAST IORN A126 CLASS B
8117 BOLTS & NUTS STEEL (ZINC PLAETD) A307/SAE GRADE 2
8119 BREAKING RING CAST IORN  A126 CLASS B
8120 O-RING BUNA-N (SYN. RUBBER) D2000
8122R COUPLING PINS STAINLESS STEEL  302 HQ
8123 LOWER STEM COLD DRAWN STEEL A108 C1018/C1020
8124 LOWER BARREL DUCTILE IRON (OR C.I.) ANSI/AWWA C151/A21.5
8125 ELBOW O-RING BUNA-N (SYN. RUBBER) D2000
8126 O-RING BUNA-N (SYN. RUBBER) D2000
8127 SEAT RING INSERT BRONZE B584 C84400/AWWA GRADE A
8128 SEAT RING BRONZE B584 C83600
8129 DRAIN TUBE BRASS B135 C 33000
8130 O-RING BUNA-N (SYN. RUBBER) D2000
8131 MAIN VALVE EPDM W/STL. INSERT D2000
8132 BOTTOM PLATE CAST IRON A126 CLASS B
8133 DRAIN VALVE PIN STAINLESS STEEL 410/416
8134 ELBOW CAST IRON A126 CLASS B
8135 ELBOW NUTS AND BOLTS STAINLESS STEEL F593C/F594
8136 DRAIN VALVE BRONZE B806 C95400/95500
8137 DRAIN VALVE VACING W/INSERT BUNA-N W/STAINLESS STEEL D2000/A2276 (304)
8139 NOZZLE CAP CHAIN STEEL A108
8140 NOZZLE CHAIN BAND STEEL A108
8141 NOZZLE RETAINING SCREW STAINLESS STEEL A276 (304)
8142 NOZZLE (STROZ OPTIONAL) BRONZE B584 C8400/AWWA GRADE A
8143 NOZZLE CAP GASKET NEOPRENE D2000
8144 NOZZLE CAP CAST IRON A125 CLASS B
8145 O-RING BUNA-N (SYN. RUBBER) D2000
8146 ALLEN HEAD SET SCREW STAINLESS STEEL A276 (410)
GUARDIAN K81D FEATURES

- Optional warranty up to 10 years on standard design upon request
- Optional trim for salt water application on request
- NSF certified epoxy coating on wetted DI parts
- Anticorrosion protection by internal and external fusion bonded epoxy coating and polyester coatings
- Drain ports to drain all water after the operation preventing any possible corrosion and cold weather freeze up
- Unique pressure activated drain valve assures positive shut off; Higher the pressure tighter the seat
- Proven main valve design offering bubble tight shut-off
- Number of turns for fully open the hydrant is 15 ½ only
- Optional Extension kit to increase trench length by 6” increment
- All K81 hydrants exceed the flow requirements of AWWA C502, UL246 and FM1510
- Antifriction bearing at thrust collar for smooth operation and low operating torque
- Traffic flange features avoiding any leakage in case of impact without damaging the main valve
- Easy to use and easy to maintain

Kennedy Guardian Fire hydrants have many additional features as indicated below:

**FEATURES**

- Prevents corrosion to the lower operation and maintenance.
- Positive stop against the elbow and interchangeability on top for easy replacement.
- Stem threads and provides a new breaking ring on assures easy seat removal.
- Full 360° adjustment.
- Bronze to Bronze Seating.
- Bronze Drain Valve.
- Corrosion resistant.
- Sealed Grease Cavity.
- Full Cover Bottom Plate.
- Designed for easier operation and maintenance.
- Traffic Flange and 360° rotation of parts for ease of repair.
- O-Ring makes repairs more efficient.
- Traffic impacts. Design minimizes damage from breakable coupling.
- Ferrule and stem.
- To seal between brass operating area from exposed.
- Two O-Rings.
- For easy turning.
- Thrust Washer.
- To protect operating area from freezing rain and dirt.
- Weather shield.

**GUARDIAN K81D PART LIST**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>ASTM SPEC</th>
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<td>THRUST WASHER</td>
<td>NYLON 66</td>
<td>ML LF 410</td>
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</table>

* Denotes that the part is available only as part of an assembly
# Must specify type of nozzle, hose or pumper
+ Recommended spare parts
Kennedy Fire hydrants have been used in fire protection for over 100 years. A.W.W.A. C502 was developed in 1913 as a standard for the manufacture and use of dry barrel hydrants. Kennedy Valves U.S.A. has established itself as a leader in the industry with manufacturing experience dating back to 1905. Many of the early hydrants are in use today.

Kennedy's Guardian fire hydrant is reliable, simply design, easy to install and easy to maintain.

**SPECIFICATIONS**

**SIZES:** Flanged 6" ANSI 150 FF / DN150 PN 16

**Working Pressure:**

250 PSIG

UL Listed and FM approved. Meets or exceeds AWWA C 502 standards

Meeting NFPA connection requirements

Traffic Breakable Flange, 360 Degree Adjustable upper Barrel

Cast Iron / Ductile Iron Barrels with Bronze Nozzles and Plug

Coating: Fusion Bonded Epoxy and Polyester

**Models**

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K81A: AWWA 502

K81AM: UL/FM AWWA Monitor Flanged

**Upper Barrel Configurations**

**Standard:** 1 Pumper & 2 Hose Nozzles

**Options**

- 2 Hose Nozzles
- 2 Pumper Nozzles
- 1 Pumper & 3 Hose Nozzles

**Inlet Connections**

**Standard:** Flanged 6" ANSI 150 or DN 150 PN 16 FF

**Options**

- 6" Mechanical Joint, Push-on or Tyton Ring Type
- 6" 250# Raised Face Elbow
- 4" Flanged , Mechanical Joint, Push-on or Tyton Ring Type
- 8" Mechanical Joint or Flanged

**Hose Outlets**

**Standard:** 2 X 2 ½" NST Threaded Hose connection

**Options:**

- BS 336 Threads, Instantaneous

**Remarks:** Options are limited to UL/FM models. Please check with us prior to ordering.

**GUARDIAN K81D DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>Weight</th>
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Various Trench depth options (D) available in 30" - 84"
Length (760mm to 2000mm) at an increment of 6"

Standard Color: Red or Yellow