



SENTRYX™ SOFTWARE ENABLED SUPER CENTURION® FIRE HYDRANT

Product Specifications

GENERAL

- 1.1 Please reference “Super Centurion® Fire Hydrant Product Specifications”

APPLICABILITY

- 2.1 Sentryx™ software enabled Centurion® Kit shall be designed to work exclusively with the following product:
 - 2.1.1 5-1/4” Centurion® Fire Hydrant,
 - 2.1.2 Opening Direction: Open Left
 - 2.1.3 3’-6” thru 6’-0” Bury Depth
 - 2.1.4 Manufactured 1975 or newer
- 2.2 Sentryx™ software enabled Super Centurion® Fire Hydrant shall be the following:
 - 2.2.1 5-1/4” Super Centurion® Fire Hydrant
 - 2.2.2 Opening Direction: Open Left
 - 2.2.3 3’-6” thru 6’-0” Bury Depth

SPECIFICATION

- 3.1 Complies with AWWA C502
- 3.2 Complies with AWWA C550
- 3.3 Certified to ANSI/NSF 61/372

WORKING AND TEST PRESSURES

- 4.1 Sentryx™ software enabled Super Centurion® Fire Hydrant: Working Pressure 350psi
- 4.2 Super Centurion Fire Hydrants are hydrostatic tested at twice rated pressure in both the open and closed positions per AWWA C502 Standard

*For more information about Mueller or to view our full line of water products, please visit www.muellerwp.com.
For customer support or to report any product issues, please call 1.800.423.1323 or email techservices@muellerwp.com.*

Mueller refers to one or more of Mueller Water Products, Inc., a Delaware corporation (“MWP”), and its subsidiaries. MWP and each of its subsidiaries are legally separate and independent entities when providing products and services. MWP does not provide products or services to third parties. MWP and each of its subsidiaries are liable only for their own acts and omissions and not those of each other. MWP brands include Mueller®, Echologics®, Hydro Gate®, Hydro-Guard®, Jones®, Mi.Net®, Milliken®, Pratt®, Pratt Industrial®, Singer®, and U.S. Pipe Valve & Hydrant. Please see www.muellerwp.com/about to learn more.

© 2020 Mueller Water Products, Inc. All Rights Reserved. The trademarks, logos and service marks displayed in this document are the property of Mueller Water Products, Inc., its affiliates or other third parties. Products marked with a section symbol (§) are subject to patents or patent applications. For details, visit www.mwppat.com. These products are intended for use in potable water applications. Please contact your Mueller Sales or Customer Service Representative concerning any other application(s).

HYDRANT DESIGN FEATURES

- 5.1 Interchangeability – Parts needed to add pressure monitoring and leak detection to the Super Centurion Fire Hydrant include:
 - 5.1.1 Bonnet Assembly, Lower Stem Assembly, and Valve Nut for pressure monitoring
 - 5.1.2 Leak detection node for leak monitoring
- 5.2 Lower Stem mounted Pressure Sensor – Monitors pressure, with the Main Valve CLOSED
 - 5.2.1 No need to charge the fire hydrant (eliminates associated safety and water hammer concerns)
- 5.3 Wireless Internal Communication
 - 5.3.1 Same Operation and familiar Maintenance as traditional Super Centurion Fire Hydrant
 - 5.3.2 No exposed wires, connectors, or cables inside the fire hydrant pressure boundary
- 5.4 Flow Performance
 - 5.4.1 3rd Party tested:
 - 5.4.1.1 Passes AWWA C502 Table 4 Flow performance
- 5.5 Corrosion protection
 - 5.5.1 Stainless steel and silicon bronze lower stem
 - 5.5.2 Bronze valve nut
 - 5.5.3 Stainless Steel hardware
- 5.6 Bonnet Assembly
 - 5.6.1 Oil level filled and checked by removing the oil filler plugs in bonnet.
 - 5.6.2 Visually consistent with traditional bonnet so as to minimize the potential for vandalism
- 5.7 Pumper Cap
 - 5.7.1 Visually consistent with traditional cap so as to minimize the potential for vandalism
 - 5.7.2 Threads and Lugs are customer specifiable
 - 5.7.3 Shall be fixed leak monitoring node



MECHANICAL MATERIAL SPECIFICATIONS

- 6.1 Bonnet Assembly
 - 6.1.1 Bonnet Flange: Ductile Iron ASTM A536
 - 6.1.2 Bonnet: Custom Engineered resin blend with exceptional low temperature impact strength, excellent chemical resistance, UV-stabilized, and paintable substrate characteristics
 - 6.1.3 Hold Down Nut Washer: 300 Series Stainless Steel
 - 6.1.4 O-Ring Seals: Buna-N, ASTM D2000
 - 6.1.5 Bluetooth Antenna: Custom Engineered resin blend with excellent hydrolytic stability
 - 6.1.6 Oil Plugs: Brass ASTM B16
 - 6.1.7 Housing Screw: 300 Series Stainless Steel
- 6.2 Valve Nut – Low Lead, Brass ASTM B584
- 6.3 Lower Stem Assembly
 - 6.3.1 Lower Stem Tube: 300 Series Stainless Steel
 - 6.3.2 Lower Stem Top and Bottom: Low Lead, Silicon Bronze ASTM B98 or ASTM B584
 - 6.3.3 Shoulder Screw: Precipitation Hardened Stainless Steel
 - 6.3.4 O-Ring Seals: Buna-N, ASTM D2000
 - 6.3.5 Stem Antenna: Nylon
 - 6.3.6 Antenna Screw: 300 Series Stainless Steel
- 6.4 Pumper Cap Assembly
 - 6.4.1 Threads and Lug: Cast Iron ASTM A126
 - 6.4.2 Assembly Screws: 300 Series Stainless Steel
 - 6.4.3 Assembly Springs: Precipitation Hardened Stainless Steel
 - 6.4.4 Housing: Custom Engineered resin blend with good toughness, durability, and paintable substrate characteristics

LEAK DETECTION

- 7.1 Please reference “Leak Monitoring Product Specifications”

PRESSURE MONITORING

- 8.1 Please reference “Mueller Remote Pressure Monitoring System Product Specifications”

HEAD END SYSTEM

- 9.1 Please reference “Sentryx™ Water Intelligence Platform Product Specifications”

