

## WATER RESOURCES WATER APL REVISION HISTORY

| Quarter | APL Sheet | Revision Description   | Date Published |
|---------|-----------|--|----------------|
| Q1 2016 | W-0       | Changed revision and effective dates.  | 2016-04-28     |
| Q1 2016 | W-2       | Changed permissible head loss section to refer to AWWA C502.   | 2016-04-28     |
| Q1 2016 | W-4       | Added requirement for 4" deep skirt valve box lids to match MAG requirement on MAG detail 391-1. Clarified the requirement for debris cap installations.   | 2016-04-28     |
| Q1 2016 | W-7       | Removed temporary language stating draft sheet.  | 2016-04-28     |
| Q1 2016 | W-8       | Added curb stop caps approved for service line abandonments.   | 2016-04-28     |
| Q1 2016 | W-12      | Clarified and extended the language related to fastener submittal requirements for transmission main, water supply, and water production facilities.   | 2016-04-28     |
| Q1 2016 | W-13      | Removed Griffin Pipe Products as an approved manufacturer as they were acquired by US Pipe and subsequently closed. Clarified and extended the language related to fastener submittal requirements for transmission main, water supply, and water production facilities. | 2016-04-28     |
| Q1 2016 | W-21      | Added AA Thread as an approved manufacturer for polyethylene encasement following an approved submittal.   | 2016-04-28     |
| Q2 2016 | W-0       | Changed revision and effective dates.  | 2016-06-30     |
| Q2 2016 | W-14      | Removed Griffin Talon RJ gasket as an approved locking gasket as Griffin was acquired by US Pipe and subsequently closed.  | 2016-06-30     |
| Q2 2016 | W-14      | Added Barracuda locking gasket by Specification Rubber Products following an approved submittal.   | 2016-06-30     |
| Q2 2016 | W-22      | Removed temporary language stating draft sheet.  | 2016-06-30     |
| Q3 2016 | W-0       | Changed revision and effective dates.  | 2016-09-30     |
| Q3 2016 | W-3       | Clarified coating section to allow electrostatically applied heat cured polyester coating.   | 2016-09-30     |
| Q3 2016 | W-8       | Removed 16" size restriction for Ford 202B service saddle.   | 2016-09-30     |
| Q1 2017 | W-0       | Changed revision and effective dates.  | 2017-03-30     |
| Q1 2017 | W-5       | Removed A.R.I D-060-C as an approved combination air valve due to the lack of required full nominal size threaded outlet for connection to vent piping.  | 2017-03-30     |
| Q1 2017 | W-0       | Changed revision and effective dates.  | 2017-04-11     |
| Q1 2017 | W-5       | Added A.R.I. D-060-C as an approved combination air valve following clarification and additional information from the manufacturer's representative.   | 2017-04-11     |
| Q2 2017 | W-0       | Changed revision and effective dates.  | 2017-07-06     |
| Q2 2017 | W-5       | Added the requirement that combination air valves be factory epoxy coated.   | 2017-07-06     |
| Q2 2017 | W-8       | Added meter adapter product category and associated specification and approved product list.   | 2017-07-06     |
| Q3 2017 | W-0       | Changed revision and effective dates.  | 2017-10-04     |
| Q3 2017 | W-2       | Replaced the Mueller Modern Centurion hydrant with the Mueller Super Centurion hydrant. Clarified the minimum and maximum bury depth to the hydrant shoe. Added vertical shoe hydrants as an option where water line depths may be excessive.                            | 2017-10-04     |
| Q2 2018 | W-0       | Changed revision and effective dates.  | 2018-07-02     |
| Q2 2018 | W-5       | Changed references for 'air/vacuum valves' to 'combination air valves' to accurately reflect the product type covered by this sheet. Revised the image of the ARI D060 to show the threaded connection version.  | 2018-07-02     |
| Q2 2018 | W-6       | Added design requirements, material requirements, and approved models for epoxy coated steel tapping sleeves. Clarified that project plans and specifications may govern whether all stainless tapping sleeves may be required.  | 2018-07-02     |
| Q2 2018 | W-7       | Revised references to APL sheet W-6 to reflect the current revised title: W-6 Tapping Sleeves.   | 2018-07-02     |
| Q2 2018 | W-21      | Revised the image of the flange isolation kit.   | 2018-07-02     |
| Q4 2018 | W-0       | Changed revision and effective dates.  | 2019-01-03     |
| Q4 2018 | W-3       | Revised Note 7 to indicate the correct working pressure for each size range.   | 2019-01-03     |
| Q4 2018 | W-4       | Revised an approved manufacturer name from U.S. Pipe to US Pipe Valve & Hydrant.   | 2019-01-03     |
| Q4 2018 | W-5       | Revised approved Cla-Val model number from 362 to 36 CAV.  | 2019-01-03     |
| Q4 2018 | W-5       | Added approved vent cap model for use on vent gooseneck piping per Mesa Standard Detail M-38.01.   | 2019-01-03     |
| Q4 2018 | W-8       | Design Requirements Section: Revised references for IPS to IP to be consistent with AWWA.  | 2019-01-03     |

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| Q4 2018 | W-8  | Approved Models - Service Saddles: Revised Jones J-975 and J-979 description to indicate those models are approved for use on cast iron and ductile iron pipe only, and added Jones J-969 as an approved option for use on ACP pipe. This change was made to align the APL with manufacturer provided specifications.       | 2019-01-03 |
| Q4 2018 | W-8  | Approved Models - Service Saddles: Revised Mueller BR1B and BR2B description to indicate those models are approved for use on cast iron and ductile iron pipe only, and added Mueller BR2S as an approved option for use on ACP pipe. These revisions were made to align the APL with manufacturer provided specifications. | 2019-01-03 |
| Q4 2018 | W-8  | Approved Models - Outlet Meter Coupling 1": Revised the AY McDonald 74620 description to indicate the correct length per the manufacturer specifications.   | 2019-01-03 |
| Q4 2018 | W-9  | Revised the description of cement mortar lining seal coat to remove references to asphaltic material. This change was made to align the APL description with the most current version of AWWA for this category.  | 2019-01-03 |
| Q4 2018 | W-10 | Revised the description of cement mortar lining seal coat to remove references to asphaltic material. This change was made to align the APL description with the most current version of AWWA for this category.  | 2019-01-03 |
| Q4 2018 | W-11 | Revised the description of cement mortar lining seal coat to remove references to asphaltic material. This change was made to align the APL description with the most current version of AWWA for this category.  | 2019-01-03 |
| Q4 2018 | W-12 | Revised the description of cement mortar lining seal coat to remove references to asphaltic material. This change was made to align the APL description with the most current version of AWWA for this category.  | 2019-01-03 |
| Q4 2018 | W-13 | Revised the description of cement mortar lining seal coat to remove references to asphaltic material. This change was made to align the APL description with the most current version of AWWA for this category.  | 2019-01-03 |
| Q4 2018 | W-13 | Approved Pipe Manufacturers: Revised McWane Companies, and its subsidiaries, to McWane Ductile.   | 2019-01-03 |
| Q4 2018 | W-14 | Approved Manufacturers: Revised McWane Companies, and its subsidiaries, to McWane Ductile.  | 2019-01-03 |
| Q4 2018 | W-16 | Approved Models: Revised Krausz Hymax model number from 2000 to 860, per current manufacturer catalog.  | 2019-01-03 |
| Q4 2018 | W-17 | Approved Models: Revised Krausz EZ Max model to Hymax Clamp, per current manufacturer catalog.  | 2019-01-03 |
| Q4 2018 | W-21 | Approved Manufacturers - Flange Isolation Kits: Changed Pipeline Seal and Insulator to GPT Industries. GPT Industries now owns Pipeline Seal and Insulator.   | 2019-01-03 |
| Q4 2018 | W-22 | Approved Manufacturers - Casing End Seals: Changed Pipeline Seal and Insulator to GPT Industries and revised the part numbers. GPT Industries now owns Pipeline Seal and Insulator.   | 2019-01-03 |
| Q1 2019 | W-0  | Changed effective and revision dates.   | 2019-04-01 |
| Q1 2019 | W-2  | Added minimum requirements for fire hydrant coating field repairs.  | 2019-04-01 |
| Q1 2019 | W-4  | Revised minimum allowable working pressures for gate valves to match MAG Specification Section 630.   | 2019-04-01 |
| Q1 2019 | W-4  | Approved Models: Revised U.S. Pipe Valve & Hydrant model number to match manufacturer catalog sheets.   | 2019-04-01 |
| Q1 2019 | W-5  | Approved Gooseneck Vent Cap Models: Added Northtown Hytech vent cap as an approved product.   | 2019-04-01 |
| Q1 2019 | W-6  | Added design, material, installation, and testing requirements for tapping sleeves installed on concrete cylinder pipe (AWWA C303, CCP).  | 2019-04-01 |
| Q1 2019 | W-6  | Added approved models for tapping sleeves installed on concrete cylinder pipe (AWWA C303, CCP).   | 2019-04-01 |
| Q4 2019 | W-0  | Changed effective and revision dates.   | 2020-01-06 |
| Q4 2019 | W-9  | Revised standard grades of iron to allow 65-45-12. Added Star Pipe Products as an approved manufacturer. Removed Clow as an approved manufacturer. Clow no longer makes DIP fittings.   | 2020-01-06 |
| Q4 2019 | W-10 | Removed Clow as an approved manufacturer. Clow no longer makes DIP fittings.  | 2020-01-06 |
| Q4 2019 | W-11 | Removed Clow as an approved manufacturer. Clow no longer makes DIP fittings.  | 2020-01-06 |
| Q4 2019 | W-12 | Removed Clow as an approved manufacturer. Clow no longer makes DIP fittings.  | 2020-01-06 |
| Q2 2020 | W-0  | Changed effective and revision dates.   | 2020-07-01 |
| Q2 2020 | W-3  | Approved Models: Revised Tyler Union Tuf Grip 1000 part number to match current catalog sheets.   | 2020-07-01 |
| Q2 2020 | W-4  | Approved Models: Revised US Pipe Valve & Hydrant part number (added hyphen) for consistency.  | 2020-07-01 |
| Q2 2020 | W-5  | Added Installation Notes section to clarify which Mesa standard details apply to the installation of combination air valves and added notes related to required vent pipe installation.   | 2020-07-01 |
| Q2 2020 | W-7  | Approved Contractors: Updated the phone number for International Flow Technologies.   | 2020-07-01 |
| Q2 2020 | W-8  | Meter Boxes and Covers: Updated this section to clarify the use of meter boxes in areas subject to vehicular traffic or static loading situations such as parking areas.  | 2020-07-01 |
| Q2 2020 | W-13 | Approved Pipe Manufacturers - Fabrication: Revised Custom Pipe & Coupling to Custom Pipe & Fabrication.   | 2020-07-01 |
| Q2 2020 | W-16 | Approved Models: Updated part numbers for Krausz Hymax and Cascade Omega couplings.   | 2020-07-01 |
| Q2 2020 | W-21 | Approved Manufacturer/Vendor: Updated company names for Trumbull Manufacturing and AA Thread Seal.  | 2020-07-01 |
| Q1 2021 | W-0  | Changed effective and revision dates.   | 2021-04-01 |
| Q1 2021 | W-5  | Added a 25 pound heavy valve box lid option.  | 2021-04-01 |
| Q1 2021 | W-7  | Added language to clarify that this sheet applies only to taps 4" and larger.   | 2021-04-01 |
| Q3 2021 | W-0  | Changed effective and revision dates. Added sheet W-20 to the index: Water Meter Assembly Appurtenances.  | 2021-10-01 |

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| Q3 2021 | W-10 | Revised standard grades of iron to allow 65-45-12. Added Star Pipe Products as an approved manufacturer.   | 2021-10-01 |
| Q3 2021 | W-11 | Revised standard grades of iron to allow 65-45-12. Added Star Pipe Products as an approved manufacturer.   | 2021-10-01 |
| Q3 2021 | W-12 | Revised standard grades of iron to allow 65-45-12. Added Star Pipe Products as an approved manufacturer.   | 2021-10-01 |
| Q3 2021 | W-20 | New sheet for Water Meter Assembly Appurtenances.  | 2021-10-01 |
| Q3 2021 | W-21 | Added Lonestar as an approved manufacturer for flange isolation kits.  | 2021-10-01 |
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| Q4 2021 | W-0  | Changed effective and revision dates.  | 2022-01-03 |
| Q4 2021 | W-6  | Removed 'Draft' from sheet title. Revised separation requirement for tapping sleeves from existing valves, fittings, and joints from 24" to 36". | 2022-01-03 |
| Q4 2021 | W-8  | Added insulating corporation stops for cathodically protected or monitored pipelines.  | 2022-01-03 |
| Q4 2021 | W-19 | Added Mueller Permaseal insertion valve to the approved list. Revised minimum required working pressure to be consistent with approved valves.   | 2022-01-03 |
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| Q2 2022 | W-0  | Changed effective and revision dates.  | 2022-07-07 |
| Q2 2022 | W-1  | Changed the email address for new or updated product submittals.   | 2022-07-07 |
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| Q3 2022 | W-0  | Changed effective and revision dates.  | 2022-07-07 |
| Q3 2022 | W-4  | Added Mueller 2362 as an approved gate valve.  | 2022-09-15 |
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| Q4 2022 | W-0  | Changed effective and revision dates.  | 2023-01-09 |
| Q4 2022 | W-1  | Added language for service submittals and approvals.   | 2023-01-09 |
| Q4 2022 | W-6  | Clarified that epoxy coated tapping sleeves shall be entirely epoxy coated.  | 2023-01-09 |
| Q4 2022 | W-7  | Added submittal requirements.  | 2023-01-09 |
| Q4 2022 | W-12 | Added Ford CSFG flange gasket as an approved model.  | 2023-01-09 |
| Q4 2022 | W-13 | Added Ford CSFG flange gasket as an approved model.  | 2023-01-09 |
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| Q3 2023 | W-0  | Changed effective and revision dates.  | 2023-10-05 |
| Q3 2023 | W-8  | Revised approved meter box models to change to AMI capable models.   | 2023-10-05 |
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| Q4 2024 | W-0  | Changed effective and revision dates.  | 2024-11-27 |
| Q4 2024 | W-4  | Reinforced low-zinc content requirement per MAG Specifications.  | 2024-11-27 |
| Q4 2024 | W-5  | Revised reference to Mesa Standard Details for air valve installation.   | 2024-11-27 |
| Q4 2024 | W-9  | Removed Sigma as an approved manufacturer due to not manufacturing domestic fittings.  | 2024-11-27 |
| Q4 2024 | W-10 | Removed Sigma as an approved manufacturer due to not manufacturing domestic fittings.  | 2024-11-27 |
| Q4 2024 | W-11 | Removed Sigma as an approved manufacturer due to not manufacturing domestic fittings.  | 2024-11-27 |
| Q4 2024 | W-12 | Removed Sigma as an approved manufacturer due to not manufacturing domestic fittings.  | 2024-11-27 |
| Q4 2024 | W-13 | Removed Custom Fab as an approved supplier. Custom Fab is now US Pipe Fabrication.   | 2024-11-27 |
| Q4 2024 | W-15 | Revised Star Pipe Products part numbers due to catalog change.   | 2024-11-27 |
| Q4 2024 | W-16 | Revised Ford FC1 part number due to catalog change.  | 2024-11-27 |
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| Q4 2025 | W-0  | Changed effective and revision dates.  | 2026-01-15 |
| Q4 2025 | W-3  | Revised part numbers for Stargrip 30" and 36" sizes for 100% domestic assemblies.  | 2026-01-15 |
| Q4 2025 | W-4  | Added prominent note for low zinc requirements for stems and wetted alloy parts.   | 2026-01-15 |
| Q4 2025 | W-5  | Replaced product images diagram to show required installed condition and referenced Mesa detail.   | 2026-01-15 |
| Q4 2025 | W-8  | Added prominent note for low zinc alloy requirements for corp & curb stops, meter couplings, and adapters.                                       | 2026-01-15 |
| Q4 2025 | W-8  | For 1-1/2" and 2" meters, replaced meter box with a new model per Department and manufacturer request.   | 2026-01-15 |