

Certificate of Quality

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| VWR Catalog Number | See List |
| Description | Masterflex® Avantor® Adapter Fittings, Sanitary Tri-Clamp to Hose Barb, straight |
| Country of Origin | Manufactured in USA |
| Date of Issue (yyyy-mm-dd) | 2022-10-12 |

| VWR Catalog Number | Barb Size / Tubing I.D. (Port 2) | Fitting Material | Sanitary Clamp Size (Port 1) |
|--------------------|----------------------------------|------------------|------------------------------|
| MFLX31200-39 | 0.25" | Polypropylene | Nil |
| MFLX31200-41 | 0.375" | Polypropylene | Nil |
| MFLX31200-43 | 0.75" | Polypropylene | Nil |
| MFLX31200-44 | 0.25" | Polypropylene | 1.5" |
| MFLX31200-45 | 0.375" | Polypropylene | 1.5" |
| MFLX31200-48 | 1" | Polypropylene | 1.5" |
| MFLX31200-58 | 0.5" | Polypropylene | 1.5" |
| MFLX40618-37 | 0.5" | Polypropylene | 1.5" |
| MFLX40618-35 | 0.25" | Polypropylene | 1.5" |
| MFLX40618-39 | 1" | Polypropylene | 1.5" |
| MFLX40618-38 | 0.75" | Polypropylene | 1.5" |
| MFLX40618-36 | 0.375" | Polypropylene | 1.5" |
| MFLX40618-34 | 0.5" | Polypropylene | Nil |
| MFLX40618-32 | 0.25" | Polypropylene | Nil |
| MFLX40618-30 | 0.125" | Polypropylene | Nil |
| MFLX40618-31 | 0.1875" | Polypropylene | Nil |
| MFLX40618-33 | 0.375" | Polypropylene | Nil |
| MFLX40618-10 | 0.5" | PVDF | 1.5" |
| MFLX40618-08 | 0.25" | PVDF | 1.5" |
| MFLX40618-12 | 1" | PVDF | 1.5" |
| MFLX40618-11 | 0.75" | PVDF | 1.5" |
| MFLX40618-09 | 0.375" | PVDF | 1.5" |

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| MFLX40618-04 | 0.5" | PVDF | Nil |
| MFLX40618-02 | 0.25" | PVDF | Nil |
| MFLX40618-00 | 0.125" | PVDF | Nil |
| MFLX40618-01 | 0.1875" | PVDF | Nil |
| MFLX40618-05 | 0.75" | PVDF | Nil |
| MFLX40618-03 | 0.375" | PVDF | Nil |

Quality System Compliance

Products are manufactured under the [ISO 9001:2015](#) standard. Products are inspected and controlled through whole production processing in accordance with current applicable product specifications and QC SOP.

QC Testing

Representative products samples are collected and inspected in accordance with current applicable product specifications.

Product Specifications

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| Material | Refer table. Product is in compliance with USP Class VI and FDA regulation 21 CFR 177.1520 |
| Sterilization | This product is compatible with sterilization via gamma irradiation. The maximum recommended gamma irradiation dose range is 50kGy. |
| ATP Assay | No information available. |
| DNase & RNase Free | This product is free of any detectable DNase/RNase contamination. |
| BSE/TSE | No use of any raw material produced from, or substances derived from animal origin. The manufacturing process of the product does not use any ingredient of animal origin and no material derived from or exposed to animals affected by or under quarantine for transmitting Animal Bovine Spongiform Encephalopathy/Spongiform Encephalopathy (BSE)/(TSE). |
| Cytotoxicity | Testing is conducted to quality all material resins using ISO 10993-5, 2009 standards for cytotoxicity and have been shown to be non-toxic. |
| Non-Pyrogenic Statement | No information available. |
| Latex Statement | The product is Latex free. |
| BPA Statement | Bisphenols are not used in the manufacture of the raw material and are not expected to be present. |

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| DEHP Statement | Please see RoHS information below. |
| RoHS | No substances (Lead, Cadmium, Mercury, Hexavalent Chromium (Cr ⁶⁺), Poly Brominated Biphenyls (PBB), Poly Brominated Diphenyl ethers (PBDE), Benzyl Butyl Phthalate (BBP), Dibutyl Phthalate (DBP), Diisobutyl Phthalate (DIBP), DEHP (di(2- ethylhexyl) phthalate)) are used in manufacturing the raw materials and final product. No routinely analyse is performed. |
| REACH Statement | No substances as listed on >Substance of Very High Concern< candidate list published 2022-06-10 are used in manufacturing of the raw materials used to produce this product. No routinely analyse is performed. |
| Storage Conditions | Storage in original packaging, at ambient conditions and away from direct sunlight at 77° F, is recommended. |
| Shelf Life | 10 years. |

Disclaimer: VWR states that this declaration will not discharge the user from their obligation to ensure the product is suitable for the intended use. The purpose of the product is for use in laboratory only.
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