

ISSUE DATE: April 24, 2024

CERTIFICATE AUTHORIZATION NUMBER: 3999



THIS IS TO CERTIFY THAT

MANN + HUMMEL Water & Fluid Solutions, Inc.

93 S La Patera Ln, Goleta, CA 93117

is hereby authorized to continue to apply the  
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 45-03  
45-03 (Crossflow Membrane Modules)

set forth below

Clean-In-Place, Sprial Wound Crossflow Membranes:

TRISEP® DS and TurboClean® Filter Elements:

Reverse Osmosis (RO): ACM1, ACM2, ACM3, ACM4, ACMX, X-20

Nanofiltration (NF): TS80, TS50, TS40, XN45, XPNF, UA60, NP030\*, NP010\*

Ultrafiltration (UF): UF5, UF10, 5kUF, 10kUF, UE50, UB50, UB70, UH004\*, UP005\*, UP010\*, UP020\*, UH030\*, UH050\*, UP150\*, UV150, UF400

Microfiltration (MF): MP005\*, MV020

\* = Polypropylene Substrate/Backing

VALID THROUGH: **December 31, 2025**

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPV INSPECTION/REPORT DUE: **April 2029**