



THIS IS TO CERTIFY THAT

NETZSCH Pumps North America
119 Pickering Way, Exton, PA 19341

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

Number 02-11
02-11 (Centrifugal and Positive Rotary Pumps)

set forth below

Clean-In-Place Models: NEMO Progressing Cavity Pumps: NMxxxbyzzgppj; where "xxx" is the size (015, 021, 031, 038, 045, 053, 063, 076, 090, 105, 125, 148, 180), "b" is the drive end (B, S), "y" is the model designation (A, H), "zz" is the number of stages (01, 02, 03, 04, 06, 11), "g" is the geometry (L, S), "pp" is the drive train pressure rating (06, 12, 24), "j" is the joint type (F, H). All versions are with sanitary clamp flanges, and mechanical seal SHJ97. Oring options EPDM or FPM. Stator material options VI-65, SBBPF, SBH, EPDM.

Both CIP and COP Models: Pump Models TORNADO® T.Sano™ XX/YY ZZ-S,
(Where XX = maximum pressure (bar), YY = maximum capacity cubic meters/hour at 600 RPM, ZZ = type of belt drive, and -S = smooth design)
Sizes 08/08, 06/12, 04/20, 08/20, 03/30, 06/30, 04/45, 08/45, 06/70, 03/70, 04/100, 08/100, 03/140, and 06/140

VALID THROUGH: **December 31, 2022**

Timothy R. Rugh
Executive Director
3-A Sanitary Standards, Inc.

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: **July 2024**