Summary of Substantive Changes  
between the 2017a and the 2019 editions of  
ASTM F2389 “Pressure-rated Polypropylene (PP) Piping Systems”

Presented to the IAPMO Standards Review Committee on May 18, 2020

General: The changes to this standard may have an impact on currently listed products. The substantive changes are:

- Increased the material requirements categorized required strength, specified requirements for PP-R and PP-RCT, and added ISO 12162 as the reference testing Standard (see Section 5.5)

Section 2, Referenced Documents: Reference standards were added as follows:

ISO 12162 Thermoplastics materials for pipes and fittings for pressure applications - Classification, designation and design coefficient

Section 5.5, Categorized Required Strength (CRS $\theta,t$): Increased the material requirements categorized required strength, specified requirements for PP-R and PP-RCT, and added ISO 12162 as the reference testing Standard as follows:

5.5 Categorized Required Strength (CRS $\theta,t$)—The PP-R material used in the pipe and fittings shall have a minimum CRS $\theta,t$ 70 °C, 50 years value of 280 457 psi (1.93 3.15 MPa) and the PP-RCT material used in the pipe and fittings shall have minimum CRS $\theta,t$ 70 °C, 50 years value of 725 psi (5 MPa) in accordance with ISO 12162, based on testing in accordance with ISO 9080 and classification of the lower confidence limit (aLCL) at 180158 °F (8270 °C) and 50 years.