

3-A Sanitary Standard for Flow Meters, Number 28-06

Standards Developing Organizations

3-A Sanitary Standards, Inc. (3-A SSI)

In collaboration with

United States Public Health Service (USPHS)/

United States Food and Drug Administration (USFDA)

United States Department of Agriculture (USDA)

European Hygienic Engineering & Design Group (EHEDG)

Effective Date: February 24, 2019

TABLE OF CONTENTS

TITLE	1
TABLE OF CONTENTS	2
DISCLAIMERS	4
FOREWORD.....	4
 A SCOPE	 5
 B NORMATIVE REFERENCES	 5
 C DEFINITIONS	 5
C1 Flow Meter.....	5
 D MATERIALS	 6
D1 Product Contact Surfaces.....	6
D1.1 Metals.....	6
D1.2 Non-Metals.....	6
D2 Bonded Material.....	6
D3 Nonproduct Contact Surfaces.....	6
 E FABRICATION OF PRODUCT AND SOLUTION CONTACT SURFACES	 6
E1 Surface Texture	6
E2 Joints	6
E2.1 Permanent Joints	6
E2.2 Non-Permanent Joints	7
E3 Coatings	7
E4 Cleaning and Inspectability	7
E5 Draining.....	7
E6 Dead Ends.....	7
E7 Gaskets, Gasket Retaining Grooves, O-rings and Seals.....	7
E8 Radii	7
E9 Threads	7
E10 Bearings	7
 F FABRICATION OF NON-PRODUCT CONTACT SURFACES	 8
F1 Surfaces.....	8
F2 Joints	8
F3 Coatings	8
F4 Cleaning and Inspectability	8
F5 Draining.....	8
F6 Threads	8
F7 Service Piping and Lines	8
F8 Supports.....	8

F9 Name and/or Information Plates (Nameplates) 8
F10 Mounting.....8
 F10.1 Walls and Columns 8

APPENDIX

1 STAINLESS STEEL AND EQUIVALENT MATERIALS 9
2 PRODUCT CONTACT SURFACE FINISH 9
3 CIP CLEANING 9
**4 ENGINEERING DESIGN AND TECHNICAL CONSTRUCTION
 FILE 9**
**5 INSTRUCTION HANDBOOK FOR INSTALLATION,
 MAINTENANCE, AND CLEANING.....9**
6 SLABS, ISLANDS, OR FLOORS 9
7 HARMONIZATION.....9