ISO 11171:2022-03 (E)

Hydraulic fluid power - Calibration of automatic particle counters for liquids

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Materials and equipment 3

5 Sequence of APC calibration procedures 5

6 Sizing calibration procedure 9

7 Data presentation 19

8 Identification statement 20

Annex A (normative) Preliminary APC check 21

Annex B (normative) Coincidence error procedure 25

Annex C (normative) Flow rate limit determination 29

Annex D (normative) Resolution determination 34

Annex E (normative) Verification of particle-counting accuracy 39

Annex F (normative) Preparation and verification of bottles of secondary calibration suspensions 42

Annex G (normative) Dilution of calibration suspension samples 46

Annex H (informative) Verification of particle size distribution of calibration samples 49

Bibliography 51