ISO 10770-2:2012-12 (E)

Hydraulic fluid power - Electrically modulated hydraulic control valves - Part 2: Test methods for three-port directional flow-control valves

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, definitions, symbols and units 1
3.1 Terms and definitions 1
3.2 Symbols and units 2

4 Standard test conditions 3

5 Test installation 3

6 Accuracy 5
6.1 Instrument accuracy 5
6.2 Dynamic range 5

7 Electrical tests for valves without integrated electronics 5
7.1 General 5
7.2 Coil resistance 5
7.3 Coil inductance - Optional test 5
7.4 Insulation resistance 7

8 Performance tests 7
8.1 Steady-state tests 7
8.2 Dynamic tests 21

9 Pressure impulse test 28

10 Presentation of results 28
10.1 General 28
10.2 Test reports 29

Annex A (informative) Testing guidance 31