

ISO 10770-3:2007-10 (E)

Hydraulic fluid power - Electrically modulated hydraulic control valves - Part 3: Test methods for pressure control valves

| Contents | | Page |
|---|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms, definitions and symbols | 1 |
| 3.1 | Terms and definitions | 1 |
| 3.2 | Symbols | 3 |
| 3.3 | Graphic symbols | 3 |
| 4 | Standard test conditions | 3 |
| 5 | Test installation | 4 |
| 6 | Accuracy | 8 |
| 6.1 | Instrument accuracy | 8 |
| 6.2 | Dynamic range | 8 |
| 7 | Electrical tests for valves without integrated electronics | 8 |
| 7.1 | General | 8 |
| 7.2 | Coil resistance | 8 |
| 7.3 | Coil inductance (optional test) | 8 |
| 7.4 | Insulation resistance | 10 |
| 8 | Relief-valve performance tests | 10 |
| 8.1 | Steady-state tests | 10 |
| 8.2 | Dynamic tests | 18 |
| 9 | Reducing valves | 23 |
| 9.1 | Performance tests | 23 |
| 9.2 | Dynamic tests | 30 |
| 10 | Pressure impulse test | 34 |
| 11 | Presentation of results | 34 |
| 11.1 | General | 34 |
| 11.2 | Test reports | 34 |
| 12 | Identification statement | 36 |
| Annex A (informative) Testing guidance | | 37 |
| Bibliography | | 38 |