

ISO 7986:1997-07 (E)

Hydraulic fluid power - Sealing devices - Standard test methods to assess the performance of seals used in oil hydraulic reciprocating applications

| Contents | Page |
|--|-------------|
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Symbols | 2 |
| 4 Test installation | 2 |
| 4.1 General | 2 |
| 4.2 Mechanical details | 3 |
| 5 Test Parameter | 3 |
| 5.1 Test fluid | 3 |
| 5.2 Test fluid temperature | 3 |
| 5.3 Test housing rod bearings | 3 |
| 5.4 Test fluid pressure | 4 |
| 5.5 Speed of linear actuator | 4 |
| 5.6 Pressure and stroke cycle for dynamic test | 4 |
| 6 Assembly and dismantling of seals | 4 |
| 7 Methods of measurement and measuring apparatus | 4 |
| 7.1 Seal leakage | 4 |
| 7.2 Seal friction | 4 |
| 7.3 Pressure measurement | 5 |
| 7.4 Surface roughness | 5 |
| 7.5 Temperature measurement | 6 |
| 8 Calibration | 6 |
| 9 Test procedure | 6 |
| 9.1 Test Programme | 6 |
| 9.2 Repeat series | 7 |
| 10 Presentation of results | 7 |
| 11 Identification Statement (Reference to this International Standard) | 7 |
| Annexes | |
| A Seal and seal housing dimension data forms | 15 |
| B Test results | 17 |
| C Seal Performance report | 18 |
| D Bibliography | 20 |