

ISO 19973-2:2015-09 (E)

Pneumatic fluid power - Assessment of component reliability by testing - Part 2: Directional control valves

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and units	2
5	Test equipment	2
5.1	Basic test equipment	2
5.2	Connecting piping and volume	4
5.3	Simultaneous operation of multiple pneumatically operated valves	4
6	Test conditions	4
6.1	General test conditions	4
6.2	Initial condition	4
6.3	Cycling frequencies	4
7	Test procedures	6
7.1	Timing of checks and measurements	6
7.2	Type and scope of checks and measurement	6
7.2.1	Functional check	6
7.2.2	Measurement of leakage	6
7.2.3	Measurement of shifting pressures	6
8	Failure criteria and threshold levels	8
8.1	General	8
8.2	Functional failure	8
8.3	Failure due to leakage	8
8.4	Failure due to shifting pressures	9
8.5	Customised agreements	9
9	Data analysis	9
10	Test report	9
Annex A (informative)	Test data sheet	11
Bibliography		14