

# ISO 6403:1988-11 (E)

## Hydraulic fluid power; valves controlling flow and pressure; test methods

---

<b>Contents</b>		<b>Page</b>
0	Introduction.....	1
1	Scope and field of application .....	1
2	References .....	1
3	Definitions .....	1
4	Symbols and units.....	2
5	Test Installation — General requirements .....	2
5.1	Test circuit .....	2
5.2	Pressure- and temperature-sensing points.....	2
5.3	Filtration and contamination level .....	3
6	General test conditions .....	3
6.1	Test fluid.....	3
6.2	Test temperatures .....	3
6.3	Steady-state conditions.....	3
6.4	Proof pressure .....	3
7	Test procedure for directional control valves .....	4
7.1	Test circuit .....	4
7.2	Steady-state pressure differential/flow characteristics.....	4
7.3	Internal leakage .....	4
7.4	Switching envelope .....	4
7.5	Transient characteristics.....	5
8	Test procedure for non-return (check) valves.....	5
8.1	Test circuits .....	5
8.2	Pressure differential/flow characteristics .....	5
8.3	Pilot pressure.....	5
8.4	Leakage .....	6
9	Test procedure for valves Controlling pressure .....	6
9.1	Test circuits .....	6
9.2	Control setting .....	6
9.3	Pressure-relief valves .....	6
9.4	Pressure-reducing valves.....	7
9.5	Unloading valves .....	7
10	Test procedure for flow control valves .....	7
10.1	Test circuits .....	7
10.2	Steady-state flow/pressure characteristics .....	7
10.3	Control setting .....	7
10.4	Transient tests on pressure-compensated valves.....	7
11	Test procedure for flow-dividing valves .....	8

11.1	Test circuit.....	8
11.2	Steady-state flow/pressure characteristics .....	8
11.3	Transient tests .....	8
12	Test report .....	9
12.1	General.....	9
12.2	Test data .....	9
12.3	Test results.....	10
13	Identification Statement .....	11
Figures 1 to 19 .....		12to27
<b>Annexes</b>		
<b>A Classes of measurement accuracy .....</b>		<b>28</b>
<b>B Use of practical units .....</b>		<b>29</b>