

DIN ISO 16030:2007-05 (E)

Pneumatic fluid power - Connections - Ports and stud ends (ISO 16030:2001 + Amd. 1:2005)

Contents		Page
National foreword		3
National Annex NA (informative) Bibliography		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Dimensional requirements	6
5	Performance requirements	6
5.1	Rated pressure range	6
5.2	Rated temperature range	6
5.3	Performance verification	6
5.4	Sealing devices	6
6	Test methods	6
6.1	General	6
6.2	Burst pressure test	7
6.3	Leakage test	7
6.4	Cyclic endurance (impulse) test	8
6.5	Overtorque capability test	8
6.6	Long-term creep test	9
7	Designation	9
8	Identification statement (reference to this International Standard)	10
Annex A (informative) Examples of sealing methods		14
Bibliography		17
Figures Figure 1 -- Port		11
Figure 2 -- Stud end		12
Figure 3 -- Pressure impulse cycle waveform for cyclic endurance (impulse) test		13
Figure A.1 -- Examples of sealing methods (see detail X in Figure 2)		14
Figure B.1 -- Illustration of widths across corners of nuts or stud end bodies and diameters of connector collars		15
Tables Table 1 -- Port dimensions		11
Table 2 -- Stud end dimensions		12
Table 3 -- Torques for stud end qualification tests		13