

DIN EN 14601:2011-01 (E)

Railway applications - Straight and angled end cocks for brake pipe and main reservoir pipe (includes Amendment A1:2010)

Contents		Page
	Foreword.....	4
1	Scope.....	5
2	Normative references	5
3	Terms and definitions.....	5
4	Requirements	9
4.1	General	9
4.2	Operating conditions	9
4.3	Functional characteristics.....	9
4.3.1	General	9
4.3.2	Open and closed positions	10
4.3.3	Lubrication.....	10
4.3.4	Venting port	10
4.3.5	Torque	10
4.3.6	Spindle handle of the end cock	10
4.3.7	Fall time.....	11
4.3.8	Leakage	11
4.3.9	Vacuum withstanding	11
4.3.10	Pneumatic shocks.....	11
4.4	Constructional characteristics	11
4.4.1	External appearance	11
4.4.2	Connections	11
4.4.3	Space envelope	11
4.4.4	Mechanical shocks	11
4.4.5	Resistance to torque.....	12
4.4.6	Life expectancy	12
5	Type test methods	12
5.1	Sampling for type test	12
5.2	Test requirements	12
5.3	Test procedure	12
5.3.1	Principle	12
5.3.2	Check of physical and geometrical characteristics	13
5.3.3	Measurement of the operating torque	14
5.3.4	Measurement of the pressure fall time	14
5.3.5	Hydraulic test (water pressure) of the end cock body at given pressure	16
5.3.6	Operating test under air flow condition.....	16
5.3.7	Pneumatic test of the isolating device at given pressures and temperatures	17
5.3.8	Endurance at ambient temperature with reduced air flow.....	18
5.3.9	Measurement of the operating torque drift	19
5.3.10	Vibration test	20
5.3.11	Resistance to shock test	20
5.3.12	Vacuum test.....	20
5.3.13	Corrosion test.....	21
5.3.14	Resistance to torque:	22
5.3.15	Examination	23
5.4	Approval validity	23
5.5	Type test report	23
6	Homologation	23
6.1	General	23
6.1.1	Procedure	23

6.1.2	Pass/fail criteria.....	24
6.2	Homologation test report	24
7	Routine tests	24
8	Designation.....	24
9	Marking	24
Annex A (normative) Dimensions of end cocks.....		26
Annex ZA (informative) ^{A1} Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community (Recast) ^{A1}		30
	^{A1} deleted text ^{A1}	
Bibliography		36