

# DIN EN 15612:2020-08 (E)

## Railway applications - Braking - Brake pipe accelerator

---

Contents	Page
European foreword .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 Design and manufacture .....	7
4.1 General .....	7
4.2 Functional requirements .....	7
4.2.1 General .....	7
4.2.2 Operating requirements .....	7
4.2.3 Train behaviour .....	7
4.2.4 Effect of overcharge .....	7
4.2.5 Effect of individual vehicle .....	8
4.2.6 Subsequent emergency braking .....	8
4.2.7 Sensitivity .....	8
4.2.8 Insensitivity to brake pipe pressure fall .....	8
4.2.9 Insensitivity to distributor valve quick service device operation .....	8
4.2.10 Tightness .....	9
4.3 Shock and vibration requirements .....	10
4.4 Environment requirements .....	10
4.4.1 General .....	10
4.4.2 Temperature .....	10
4.4.3 Other environmental conditions .....	10
4.5 Compressed air quality .....	11
4.6 Fire behaviour .....	11
4.7 External appearance .....	12
4.8 Design requirements regarding pressure stress .....	12
4.9 Interfaces .....	12
4.9.1 General .....	12
4.9.2 Mechanical .....	12
4.9.3 Pneumatic .....	12
5 Type tests .....	12
5.1 General .....	12
5.2 Individual brake pipe accelerator tests .....	12
5.2.1 Test bench for individual brake pipe accelerator tests .....	12
5.2.2 Sampling for type tests .....	14
5.2.3 Test temperature and air quality .....	14
5.2.4 Procedure for type tests .....	14
5.2.5 Operation at extreme temperatures .....	17
5.3 Simulated train consist tests .....	18
5.3.1 Simulated train consist test bench .....	18
5.3.2 Sampling for train consist test .....	18
5.3.3 Test temperature and air quality .....	18
5.3.4 Test procedure .....	19
6 In-service assessment .....	20
7 Designation .....	20

8	<b>Identification and marking .....</b>	<b>20</b>
	<b>Annex A(normative) In-service assessment .....</b>	<b>21</b>
	<b>Annex ZA(informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2016/797/EU aimed to be covered .....</b>	<b>22</b>
	<b>Bibliography .....</b>	<b>24</b>