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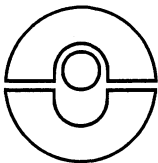
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1st edition: 1-1-92

Brakes

**Regulations governing the construction
of different types of braking gear**

**Simple pressure receptacles, of steel,
not fired, for air braking equipment
and auxiliary pneumatic equipment for
railway rolling stock**



International Union of Railways

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To be classified in volumes:

V - Transport stock

VI - Traction

VIII - Technical specifications

Amendment

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Foreword:

This leaflet is:

- **mandatory** for all the documents produced by UIC and ERRI;
- **mandatory** for simple pressure receptacles to equip rolling stock still to be designed.
- **recommendatory** for simple pressure receptacles equipping existing rolling stock.

Mandatory provisions are preceded by an asterisk: *

The double line in the margin (||) indicates the amendments made on the date given at the foot of the page.

The date of enforcement of this leaflet is governed by the provisions given under "Application" at the end of the text.

Note

This leaflet is part of a series including:

- Leaflet 542 - Brake parts (interchangeability).
- Leaflet 834 - Technical specifications for the supply of simple pressure receptacles of steel, not fired, for air braking equipment and auxiliary pneumatic equipment for railway rolling stock. (to be published)
- Leaflet 842-4 - Technical specifications for protection against corrosion and for paint on wagons and containers.

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*** 1 - Purpose**

This leaflet lays down the conditions to be observed in the design, assembly on rolling stock and in-service maintenance of simple pressure steel receptacles, non fired, for air braking equipment and auxiliary pneumatic equipment in tractive and trailing stock.

Simple receptacles are made up of either a straight cylindrical section, the "shell", closed at either end by two torispheric bases with their convex side facing outwards, or of two convex bases with the same rotational axis (see figure 1).

2 - Scope

This leaflet applies to the reservoir itself, between its intake and outlet points and at any other individual connection point.

This leaflet contains an alternative constructional design derived from European standard EN 286-3.

The reservoirs are designed for use:

- at a maximum in-service pressure (PS) of 10 bar; a temporary maximum pressure of 11 bar is, however, permitted;
- at temperatures of between -40°C and +100°C;

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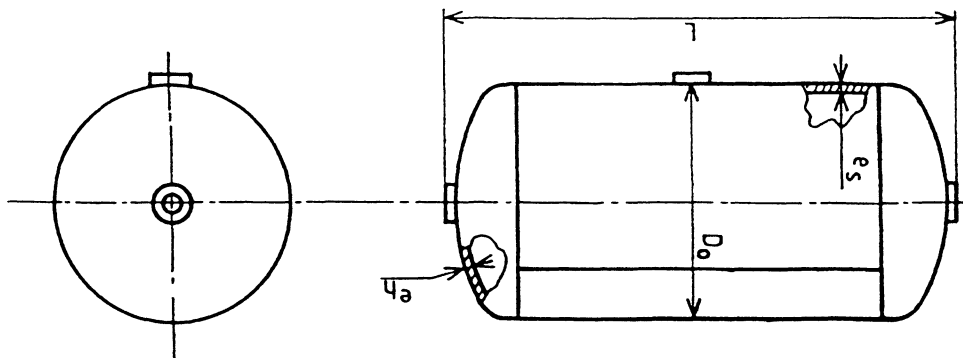
- within the limits of the product of the maximum in-service pressure (in bars) and the volume (in litres), such as: 50 bar. $L < PV \leq 10\,000 \text{ bar} \cdot L$;
- secured to vehicles with straps.

3 - Abbreviations

D_o	External diameter of the reservoir shell	mm
d_1, d_2	Internal diameters of the connection points	mm
e_h	Nominal thickness of the base	mm
e_s	Nominal thickness of the shell	mm
L	Total length of the reservoir	mm
L_1	Distance of the axis of a drainage point from the end of the reservoir	mm
PS	Maximum in-service pressure	bar
V	Volume of the reservoir	litres

4 - Dimensions (in millimetres) and volumes (in litres) of reservoirs

Figure 1



Reservoirs with dimensions and volumes specified in the following table are only recommended.

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Do	125	150	200	250	300	350	400	450	500	550	600	700	800
V litres	Length L (mm)												
5	497	358	220										
9		608	353	253									
10		670	387	274									
15			554	383									
25				590	440								
27				644	469								
40					663								
50					810								
57					917	693							
67					1066	802	638						
75 77					1216	911	722	588					
100					1520	1160	913	737					
125						1444	1134	910					
150							1342	1075	898	769			
160							1425	1140	951	812			
180							1592	1370	1056	900			
200							1759	1400	1160	983			
250								1723	1424	1200		801	
300									1686	1418		935	
400									2221	1853	1575	1201	965
500										2287	1940	1468	1170
600											2304	1634	1373
700												2001	1577
800												2268	1781