

Advice for making EC- and ECE brake calculations



	Legal requirements	EBS (Electronic Brake Sysytem)	
		unladen	Laden (Pm=6,5 bar)
Semi Trailer	45 %	See Valx setting parameters of EBS brake systems	55%
Central axle Trailer	50 %		60%
Draw bar Trailer	50 %		60%

General information:

- All Valx drum brake axles are delivered with automatic slack adjusters.
- All Valx drum brake axles need to be equipped with long-travel cylinders.

Setting parameters of EBS brake systems:

- Valx recommends to use brake chambers as small as possible to fulfill the legal requirements.
- The service brake pressure requirement is close to 6,5 bar but not over 6.8 bar.
- The brake performance between start and maximum preferably follows a straight line.
- The parking brake effect must be according the legal requirements. ($\geq 18\%$)

Drum brake:

- Set pressure at $p_m = 0,8$ bar
- deceleration empty needs to be as close as possible to deceleration loaded vehicle. (part will be outside the empty braking band)

Disc brake:

- Set pressure at $p_m = 0,6$ bar
- deceleration empty should be into the mid from the limit band.

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