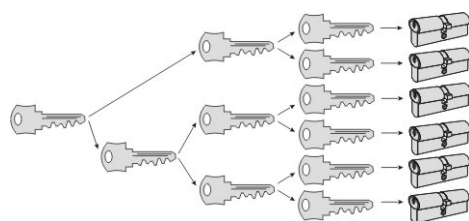


# Technical Information Security Technology

## Locking Systems



Basis of testing and certification:

VdS-Guidelines for Physical Security Devices  
Locking Systems  
Requirements and Test Methods, VdS 2386 (02)

<b>Model types of locking systems</b>	
<b>Central locking system (Z<sup>1</sup>)</b> Use of locking cylinders of <b>class A or AZ</b> according to VdS 2156 respectively 2156-2	<b>Master / General master key systems (HS/GHS)<sup>2</sup></b> Use of locking cylinders of <b>class B, BZ, C or CZ</b> according to VdS 2156 bzw. 2156-2
<b>Features of the locking cylinders</b>	
Locking cylinders of <b>class A or AZ</b> offer a basic security against burglary (these cylinders meet the requirements according to DIN 18252, Klasse 21, 31 oder 71)	Locking cylinders of <b>class B or BZ</b> offer a medium security against burglary Locking cylinders of <b>class C or CZ</b> offer a high security against burglary (cylinders of class B and BZ meet the requirements according to DIN 18252, Klasse 42 or 82; (no equivalent of class C cylinders is given.)
<b>Requirements, locking cylinders and keys</b>	
Key profiles of locking cylinders with coded individual locking function shall not be used.	
For keys of master and general master key systems features, impeding the illegal purchase of duplicate keys, e.g. an industrial property right, shall be given.	
The additional delivery of keys shall only be carried out by the manufacturer against presentation of the legitimation (e.g. security card).	
In locking cylinders of <i>security relevant areas</i> a minimum number of detainers shall be designed without split pins or comparable multiple partitions as shown in the following:	
<i>Locking cylinders in central locking systems</i>	shall be composed of at least <b>4 detainers</b> without split pins.
<i>Locking cylinders in master and general master key systems</i>	shall be composed of at least <b>5 detainers</b> without split pins.
Locking cylinders of <i>security relevant areas of locking systems</i> shall provide the same security against unauthorized keys as locking cylinders with individual locking function. For each key profile the varieties needed for the locking systems objectives shall be given additionally.	
<i>Locking cylinders in central locking systems</i>	in addition to the varieties used for the locking systems objectives <b>29,999 varieties</b> shall be given.
<i>Locking cylinders in master and general master key systems</i>	in addition to the varieties used for the locking systems objectives <b>99,999 varieties</b> shall be given.
<i>Size of locking systems</i>	Master and general master key systems shall provide the use of at least 30 locking cylinders in security relevant areas.
<i>Dimensions</i>	The dimensions of VdS-approved locking cylinders meet the requirements of DIN 18 252. Alternative designs are permitted.
<b>Administration of locking systems, EDP-based</b>	
Locking systems shall be delivered with a software that – password protected – makes possible to administer the keys (e.g. status), locking cylinders (e.g. maintenance interval) as well as orderings of keys and cylinders.	

The complete guideline can be ordered per mail ([verlag@vds.de](mailto:verlag@vds.de)).

<sup>1</sup>) German term: "Zentralschließanlage"

<sup>2</sup>) German term: "Hauptschlüsselanlage, Generalhauptschlüsselanlage"