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## Reliability of the pneumatic cylinders, B10 values.

<b>Cylinders</b>	<b>B10 values</b>
<b>ISO15552 cylinders</b>	15.000 km
<b>ISO6432 cylinders</b> polyurethane seals	30.000 km
<b>ISO6432 cylinders</b> NBR seals	15.000 km
<b>ISO21287 cylinders</b> NBR seals	15.000 km

### Definition of B10 value:

statistically expected value for the life time at which 10% of the components have exceeded the threshold values defined for the test (leakages, breakings, etc) under specific conditions.

The B10 value has to be used as a parameter for safety evaluations and to establish routine maintenance programs.

A component can incur in failures also before the expected lifetime and the B10 value cannot be guarantee.

Their lifetime is strongly affected by the working conditions:

- Compressed air quality and conditions
- Lubricant compatibility with the seals
- Working Temperature
- Loads applied to the cylinder
- Environmental factors as such dust, fluids and chemical substances.