

Reliability of the pneumatic cylinders, B10 values.

Cylinders	B10 values
ISO15552 cylinders	15.000 km
ISO6432 cylinders polyurethane seals	30.000 km
ISO6432 cylinders NBR seals	15.000 km
ISO21287 cylinders 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.