Doc. no.:VM＊-RRN0075

Reliability characteristic data for: Control valve

Model number: VR51 series

B10 data

Based on the following endurance test results of the control valve VR51 series, and assuming a failure mode following the Weibull distribution the following B10 data has been estimated. (90% confidence level)

	B10
VR51 series	3.1 million cycles

NOTE:

The estimated reliability data provided is only applicable to the component in the stated operating conditions.

Use of this data for any assessment under standards or otherwise, is at the sole risk of the user.

This product is not a safety component and is not supplied to provide a safety function.

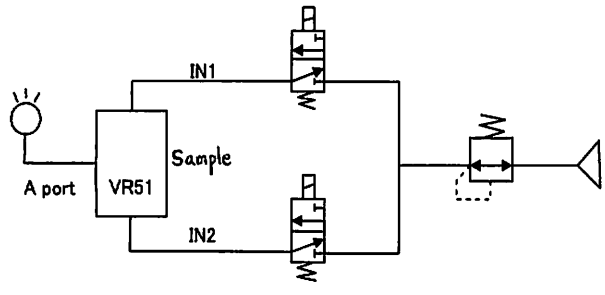
Endurance test results

For reference

- 2 solenoid valves were tested up to 5 million cycles, and found to have zero failure.

Endurance test conditions

1) Test circuit



2) Pressure: 0.5MPa
3) Lubrication: None
4) Air supply: Dry air
5) Operating freq.: 60 times / sec.
6) Applied voltage: Rated voltage
7) Laboratory: Life test room
8) Ambient temp.: Normal temp.(13 to 33 °C)
9) Load:VR3100-01R is connected with A port.

Prepared	2010, Mar, 24 N. Yamamoto
Checked	
Approved	2010, Mar, 24 S Nakamura