



E.G.R Modulator Valve Test Standard

KES T – A102

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1. Purpose

This standard shall specify the performance and durability test method of E.G.R modulator valve that controls the control pressure of E.G.R valve.

2. Scope of Application

This standard shall be applicable for the E.G.R modulator valve of Pride and Concord. And it shall be also applicable for the E.G.R modulator valve of other kinds of car in case that only the operation characteristic specification (Initial performance) is changed to the drawing one.

3. Meaning of Terms.

E.G.R stands for Exhaust Gas Re-circulation and it makes the exhaust gas circulated again into the combustion chamber, and the combustion temperature comes to be down so that the producing amount of NO_x is decreased.

4. Performance

4.1 Initial performance

After the test of 5.1 is carried out, it should satisfy the value of 4.1.1 and 4.1.2.

4.1.1 Operation performance

Table1

Classification Item		Specification		Test method	Remark
		NB-3	NB-5		
Operation Characteristic	Final pressure of Closing valve (Pd)mmAq	Less than 72	Below 75	5.1.1	The specification mentioned in left are changeable according to the kinds of cars
	Final pressure of Opening valve (Pd)mmAq	More than 43	Above 48		
Ventilation resistance of after open (mm Hg)		Below 50			
When closing value leakage of seat part (cc / min)		Below 100mmHg ~ 15			
Hysteresis (mmAg)		Below 15			

4.1.2 Filter performance

Table1

Classification	Specification	Test method
Item		
Ventilation resistance (Initial)	Less than 5 mmHg	5.1.2
Cleanness efficiency	More than 80%	
Dust holding amount	More than 0.7g	

4.1.3 Airtight

- (1) Seal up the filter, and no leakage should be found when the air-pressure of 0.6kg / cm² is applied to the other nipples except nipple, V through which exhaust gas flows in.
- (2) No leakage should be found when the air-pressure of 0.6kg/cm² is applied to the nipple, V.