



Statement to explain table on designed lifetime of safety relevant controls (attached)

The mission of the heating industry has always been to develop and supply products to the market with high safety and performance levels.

In the light of this, product standards have been developed and continuously improved by industry based on expertise and decades of experience. The standards are being used as design guidelines and for certification. To maintain the high level of safety and performance over the lifetime of products the heating industry has always provided support to installers and users of their products by means of maintenance requirements.

Appliances and controls are designed for a certain lifetime, subsequently referred to as 'designed lifetime'. The designed lifetime is expressed as a number of operating cycles or years. The number of years is being derived from the cycles assuming a typical use of the appliance. Beyond the mentioned designed lifetime, safe use of the product requires additional measures as described below. Warranty as opposed to the designed lifetime is being described in the delivery terms.

As soon as the designed lifetime of a safety relevant control is reached, certain checks and maintenance procedures have to be performed as required by the manufacturer. These procedures may include replacement.

To decide on the need for checks and measures, the following table gives recommendations on designed lifetime figures in numbers of operating cycles or years for certain types of safety relevant controls. The figures have been compiled from the relevant standards applicable for that component. They are used as minimum requirements for the type-examination based on those standards.

The procedure for inspection/maintenance of a specific appliance/control is given in the instruction manual of the manufacturer. In case of any doubts, the manufacturer should be consulted.



Safety relevant Controls	Designed Lifetime		Standard
	Operating Cycles	Time [years]	
Valve proving system	250.000	10	EN 1643
Pressure switch gas	50.000	10	EN 1854
Pressure switch air	250.000	10	EN 1854
Pressure switch oil	250.000	10	IEC 60730-2-6
Automatic burner control with flame safe guard	250.000	10	EN 298
Flame detector (UV probes) ¹	N/A	10,000 operating hours	
Gas pressure regulators ¹	N/A	15	EN 88
Gas valves without valve proving system ²			
DN ≤ 25, to ≤ 1 s, p _{max} ≤ 15 kPa	500.000		
DN ≤ 25, to ≤ 1 s, p _{max} > 15 kPa	200.000		
DN ≤ 25, to > 1 s,	200.000		
25 < DN ≤ 80	100.000	10	EN 161
80 < DN ≤ 150	50.000		EN 126
150 < DN ≤ 250	25.000		
Gas valve with valve proving system	after error detection		EN 1643
Oil burner connection hoses	N/A	5	ISO 6806
Oil valves	250,000	10	ISO 23553-1
Pressure relief valves SSV function SEV function	500	10	EN 88-2, EN434 EN 14382
Fuel / air ratio systems	N/A	10	EN 88-1 (pneumatic) EN 12067-2 (electronic)

¹ Performance decrease due to ageing

² For gases from the public gas supply, classes 1, 2 and 3