Applications
The KS-500 and KS-500-K are used as gastight closing valves of air ducts in Civil Defence and military shelters and industrial facilities. Temet gastight closing valves are primarily designed to separate contaminated and toxic-free spaces and to control the airflow between them.

Specification
Manufacturer of KS-500 and KS-500-K gastight closing valve is Temet Oy, Helsinki Finland.

The KS-500 and KS-500-K gastight closing valve comprises a light metal alloy body with neoprene gaskets installed between two counter flanges. The closing part is an aluminum alloy (KS-500) or stainless steel (KS-500-K) flap installed within the body on a spindle with bearings. The flap can be locked in any position. All parts are effectively corrosion proofed: the valve body epoxy powder coated, the flap made of stainless steel or epoxy powder coated and other components galvanized.

Design Criteria
The KS-500 and KS-500-K gastight closing valve is made in accordance with the specific provisions issued by the Finnish Ministry of the Interior.

The KS-500 and KS-500-K are type tested and approved for use by the Technical Research Centre of Finland, VTT Building Technology, an Independent Testing Authority mandated to perform type inspection for shelter equipment and systems by the Ministry of the Interior. Type test are available upon request.

The valve is designed to function within the operating temperature range of -20 to +55°C.

Leakage rate
The leakage through the KS-500 and KS-500-K gastight closing valves does not exceed $2 \times 10^{-3}$ l/s corresponding to a pressure differential of 1000 Pa across the valve. By pressurizing the void between the double flap of the KS-500-K valve with clean air, the leakage flow across the valve can be completely eliminated.

Documents related to KS-500 and KS-500-K Gastight Closing Valves:
Installation Instructions
Maintenance Instructions
TEMET GASTIGHT CLOSING VALVE
KS-500 AND KS-500-K

Accessories for KS valves:

KS valves are available provided with electric, electric fail-safe and pneumatic actuators.

Typical Installations of KS valves
Valves can be installed between ducts, into flanged wall sleeves, etc. Detailed instructions for installation, maintenance and use are attached to every valve delivered.

Air flow characteristics measured at 20 °C corresponding to air density of 1.2 kg/m³.