

Flap valves are terminal devices used in sewage and land drainage systems. They provide protection from the backflow of water or wastewater into the sewage system. Flap valves can be installed at outlets from sewage systems or floodbank culverts (for agricultural drainage ditches or natural watercourses) into drainage channels with a variable water table. Our flap valves are designed for installation at the end of a gravity flow pipeline (not pressurised pipelines). They are not designed for use with pumps, particularly high-efficiency pumps. S plastic flat valves are made to custom specifications.

AVAILABLE FLAP VALVE VERSIONS

- Straight flap valves for on-wall installation
- (KP), Sloping flap valves for on-wall installation (KS)
- Sloping flap valves for installation onto a clamping flange (KSK)
- Sloping flap valves for on-pipe installation (spigot) (KNR)
- Sloping flap valves for installation into a pipe (KDR)

HOW DO FLAP VALVES WORK?

Flap valves are activated automatically by the difference in the pressure exerted on the surfaces inside the valve. The valve will open if the water pressure from the side of the sewage system is greater and close if the water pressure from the side of the receiving device is greater. As the valve is correctly balanced, the discharge of sewage from the sewage system is not affected.

TECHNICAL DESIGN DETAILS

Flap valves are designed for installation on the concrete face of a wastewater sewer or storm water sewer. They can also be designed to be connected by means of a flange or a coupling with an existing sewage system or storm water drainage system. S plastic can also supply flap valves designed for specific installation



ANTI-CORROSION PROTECTION

S Plastic flap valves are made of high-density polyethylene (PEHD). Polyethylene does not corrode and is resistant to aggressive substances found in sewage or storm water. Our flap valves are sealed with rubber or silicone gaskets.

This catalogue shows only typical or standard products offered by S Plastic, and the drawings provided in this catalogue are only part of the available solutions.

Flap valves with a diameter of 600 mm (DN 600) come with stainless steel rails embedded in plastic.

All installation and design details are always discussed and agreed upon in all our projects to make sure that our flap valves are designed for the required installation method and site conditions. We are prepared to design and manufacture products of various shapes, durability and for various applications, depending on the customer's requirements.

Flap valves will work properly only if the required ballast is provided.

S Plastic flap valves, gate valves and penstock valves are officially approved for use (National Technical Approval No.ITP-KOT-2017/0005, Issue 1)