



Specification

Model 70HFV 4" – 24"

Flap Valve

Application

The Ross Model 70HFV Flap Valve operates as a check valve to prevent back flow. The flap valve is designed to stay closed until a certain pressure is built within the pipe and once the desired pressure is reached the valve will open and stay open until pressure reduces and the weight of the door causes the valve to seat again.

Design

The flap valve body can be wall, flanged, or spigot mounted. The face of the valve can be angled or flat to determine a lower or higher cracking pressure. A stainless steel counter weight is attached to the front of the seat disk in order to add weight and keep the valve seated. To allow the valve to self align at both high and low pressures each flap valve has a slotted stainless steel hinge pin design that allows free movement. To prevent the flap valve from being stuck in an open position or to ensure a desired rate of flow a stop bar or stroke limiter is installed to restrict the seat disk or doors movement. The design shall be such that repairs and dismantling of the valve may be made without its removal from the line.

Physical and Chemical Properties

All High Density Polyethylene or HDPE components shall be constructed of 300 grade material.

All the stainless steel components as well as the hardware shall be 304 or 316 grade material that conforms to ASTM A240.

All seats and gaskets shall be furnished of EPDM rubber that conforms to ASTM standard D-2000.

The flap valve shall be equal in all respects to the Model 70HFV as manufactured by Ross Valve Mfg. Co., Inc, 75 102nd Street, Troy, NY 12180.

Note: The Ross Valve Mfg. Co., Inc. reserves the right to modify flap valve construction which will result in equal or superior performance to existing designs. These modifications may be made at any time and at the sole discretion of the manufacturer.