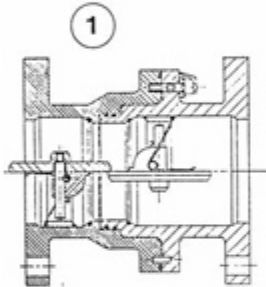


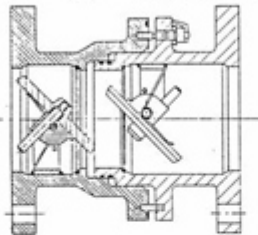
FLIP-FLAP VALVE TYPE - HOW IT WORKS

Note - Variable controlled valve closure in one, or both, directions, is achieved by means of integral, closed circuit, hydraulic damper mechanisms mounted within the valve disc stems.

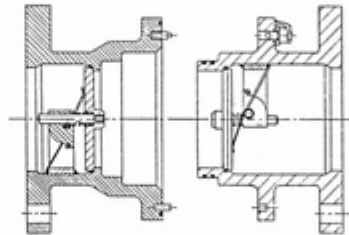
Valve discs, positioned in line with flow, lock each other open, offering minimum headloss



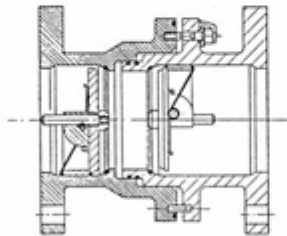
2 The coupling parts and the combined energy of the bias spring and product velocity flips the discs through a controlled arc.



4 Finally the discs snap onto their seats providing 100% leak-free shut off.



3 The discs continue to rotate until they have moved through 90 deg.



FLIP-FLAP MARINE BREAKAWAY COUPLING – SEQUENTIAL BREAK/VALVE CLOSURE.

