

Automatic Pressure Control System



Wing Valve Series

Thin
Large diameter
Throttle valve

General Description

This throttle valve with a large diameter has been developed as the next generation leader for large pumping processes (automatic pressure control system). Despite their large diameter, multiple wings make the available space at a fully-closed position $1/5-1/10$ the size and make the conductance 3 times higher than the butterfly model having the same diameter. The minimum conductance is obtained at a fully-closed position with the wings piling on top of each other at the edge.

The wing drive mechanism is simple enough that no wiring is required and no gas collections in the device.

Features

- Simple structure
Designed for easy maintenance and high reliability. No gas collects in the device.
- Compact layout
As thin as 30 mm at the fully-closed position
- Wide dynamic range
Minimum conductance is obtained at fully-closed position with wings piling on top of each other.
- Even pumping efficiency
Symmetric movement of the wing allows for even pumping efficiency over the surface area.

APN30



Throttle valve for control unit