

JAKI High Performance Butterfly Valve Seat Designs

- R Type Unique Soft Seat design
- P Type Soft Seat design
- S Type S shape Flexible Metal Seat design



R type

The unique seat consists of a resilient energizer which is completely encapsulated by the seat, is also isolated from all contact with process fluid.

The o-ring energizer is of fluoroelastomer material. This provides excellent resilience and it is able to flex and deform under loads and return to original shape after removal of the load.

The o-ring energizer increases the elasticity of seat as well as seat life and improves the leak-free performance.

The advanced seat design offers a self-energized seal in vacuum and low temperature applications.

Fugitive Emission Test

JAKI R-type Seat Butterfly Valve has been successfully passed Standard ISO15848-1.

Valve is tested at different temperature with helium test gas, using a sniffing test or vacuum technique.

Low emission performance design has been indispensable to JAKI valves.

A low fugitive emission design minimizes the costs occurring when a product is lost via leaking valves.

Emission reduction prevents risk and hazards from liquid or vapors to human health, safety and environment issues as well.



P type

This is standard resilient seat design, constructed of PTFE, Filled PTFE or TFM PTFE, utilizes a flexible lip which will slightly deflects the disc when it bears flow pressure. This movement makes the sealing surface of the seat is constantly pushing against the edge of the disc.

The sealing force is amplified by increasing line pressure.



S Type

Metal seat is suitable for abrasive and/or high temperature applications.

By its dynamic and flexible design, the disc lifts quickly out of the seat and this produces minimum wear, so operating torques are reduced and seat life is extended.

This metal seat design needs to be applied enough force to obtain an optimum sealing performance.