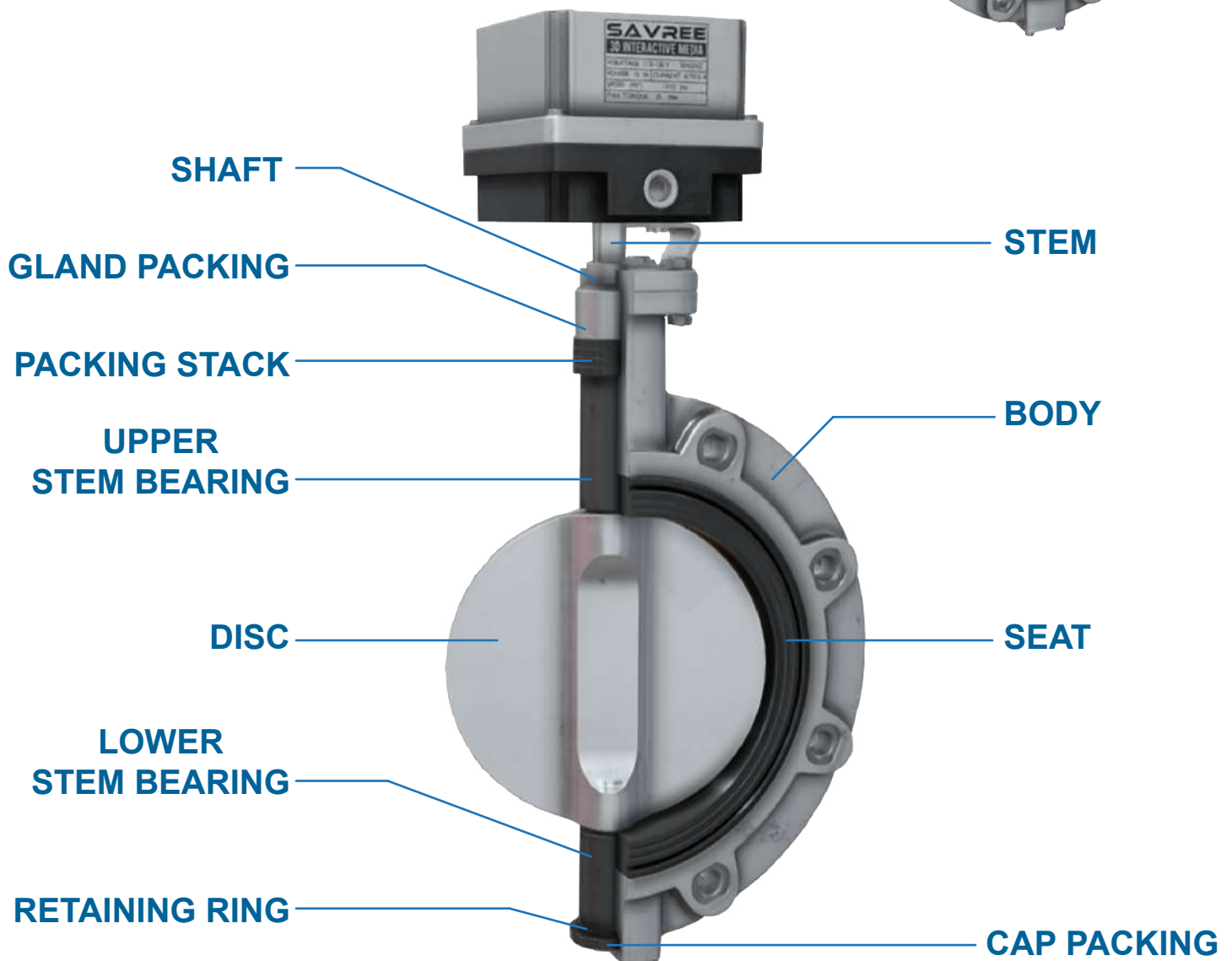


# Butterfly Valve

Butterfly valves are fast acting (1/4 turn) rotary motion valves. This type of valve can be used to start, stop and regulate flow (throttle flow).

Compared to other common process control valves the butterfly valve offers significant advantages concerning weight and space savings.

The butterfly valve has found widespread applications in many industries due to its low number of moving parts, low maintenance costs and simple design. This type of valve is particularly well suited for high flow, low pressure systems.



## ADVANTAGES

A stream lined butterfly disc allows the flowing medium to pass over the disc without a large pressure drop or flow restriction occurring.

Butterfly valves are fast acting and the stem only needs to be rotated 90 degrees in order to change the valve from the fully open to fully closed position.

The butterfly valve is well suited for flow regulation (throttling) and does not create significant turbulent flow when partially opened/closed.

Butterfly valves are similar in design to ball valves, but are more suitable for larger applications as they are generally cheaper and weigh less.

## DISADVANTAGES

Butterfly valves have a low pressure drop when fully open, but not as low as gate and ball valves.

Butterfly valves are generally not maintained in situ; they are replaced entirely then overhauled in a workshop.

Pigs (inspection devices) can not pass through an open butterfly valve.



OPEN



CLOSED