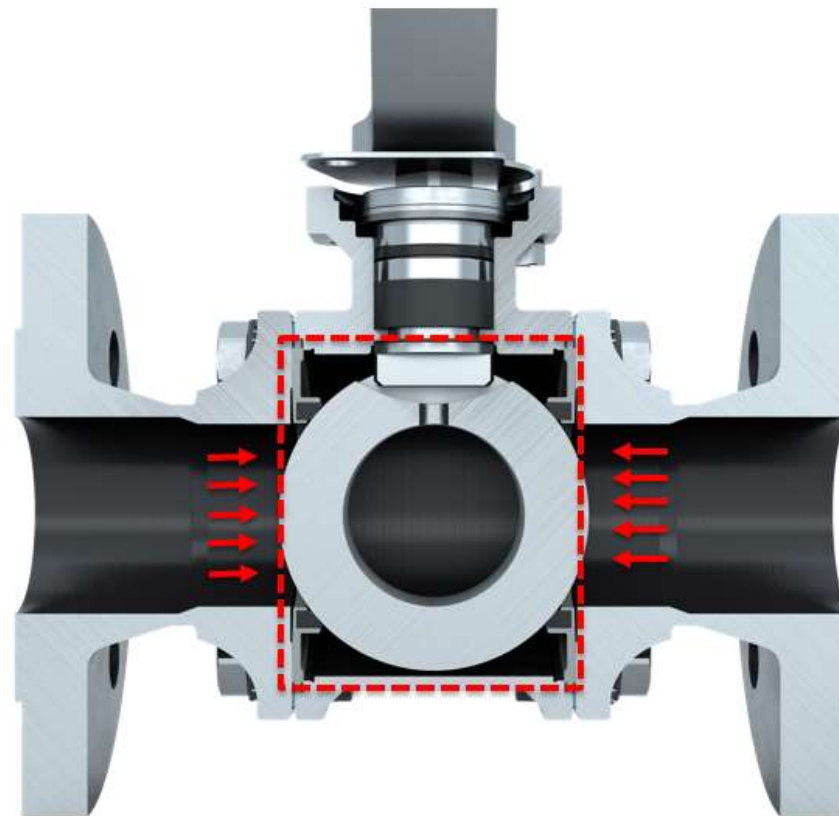
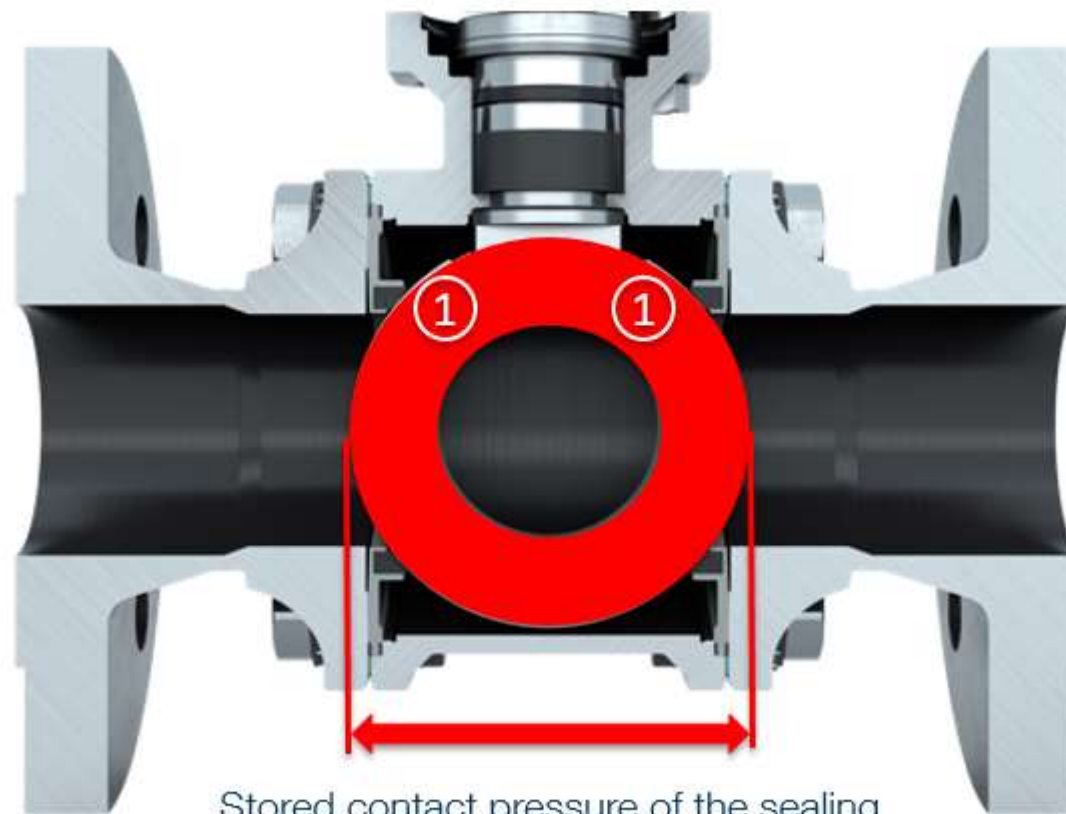


## KHA NEW GENERATION: DYNAMIC SEALING CHAMBER

The automatic sealing chamber of the Ballostar KHA ball valve utilizes spring loads in two sealing elements for the function of the valve. The result is an sealing chamber in which the loads of the sealing elements simultaneously **work bidirectionally**. Primarily this concerns safety lines in plants, especially those with alternating flow directions.



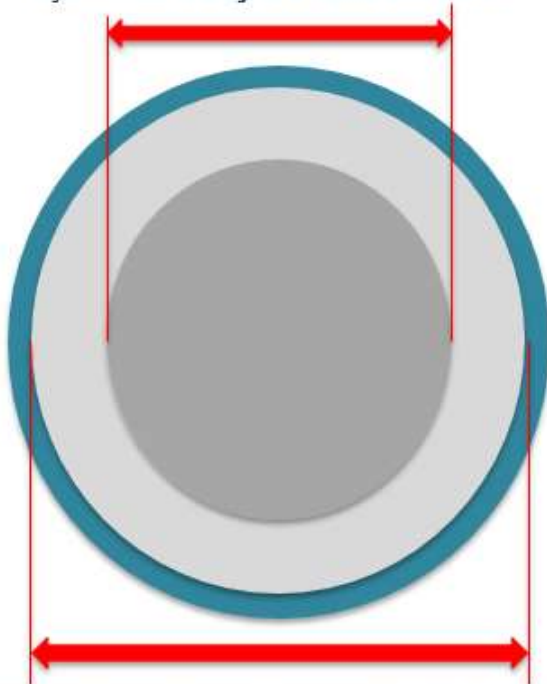
When the two flanges are screwed to the centre piece of the valve, the forces in the two pretensioned diaphragm springs of the sealing elements are released and press the sealing rings against the ball (1). This happens independently of any media pressure present. The forces also act at very low media pressure or in vacuum operation.



Stored contact pressure of the sealing elements acts in both directions

With conventional ball valves, the medium only presses on the ball in the direction of flow. With the KLINGER Ballostar KHA, the entire sealing element is also subjected to the medium pressure (2). Advantage: If the differential pressure increases, the additional contact forces also increase. This leads to relief in the pretensioned diaphragm springs and thus to a further improvement in service life.

Contact surface area of the media for competitive systems: **Only the ball surface**



Contact surface area of the media of KLINGER system :  
**Ball surface and area of the diaphragm springs**

