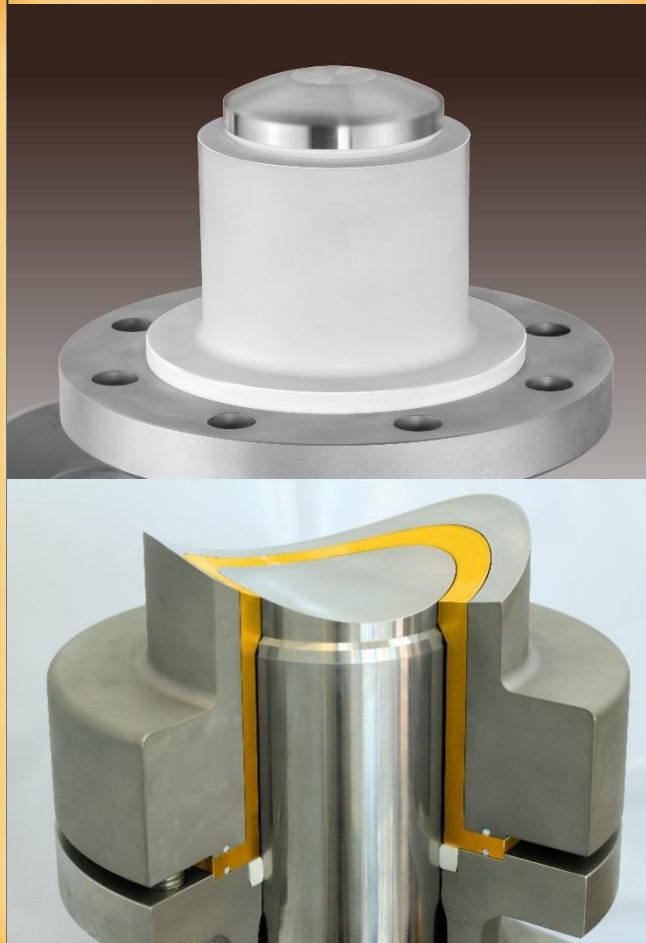


# Valve Seats

Standard and Special Options

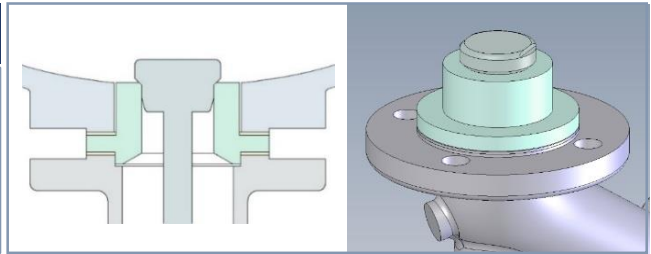


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## Standard and Special Seat Options\*

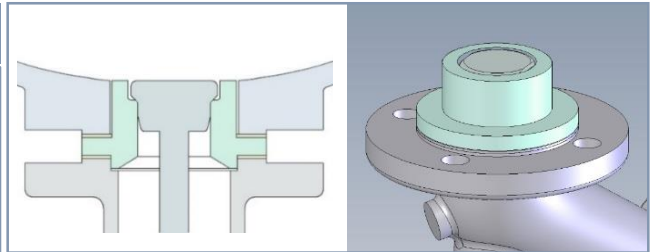
### Standard Seat

Cylindrical external diameter with a small clearance to match the vessel nozzle bore. The seat external diameter ( $\varnothing d1$ ) is typically 1 mm less than the vessel bore.



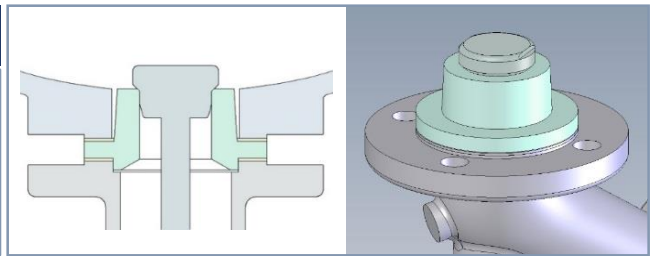
### Seat with Recess

Seat with a custom-made recess which allows the disc to sit below or in line with the inner surface of the vessel.



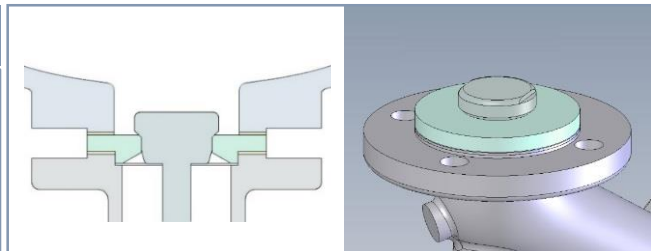
### Seat with Taper

External diameter has a tapered face to allow easier removal from the vessel nozzle bore.



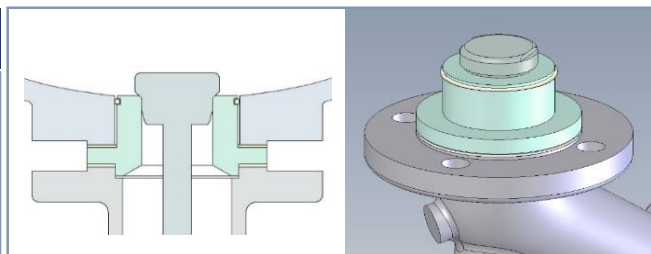
### Flat Seat $x'=0$

The seat removes narrow dead-space between the seat and vessel bore face, allowing enough space around the disc for full mixing of the media to take place.



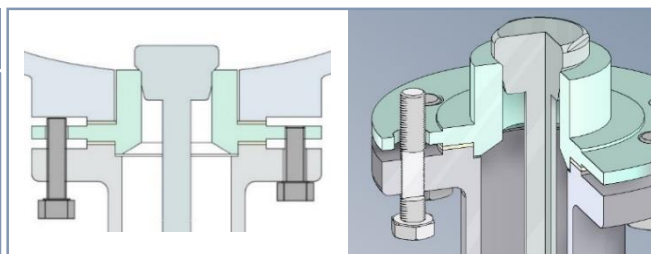
### Seat with O-Ring

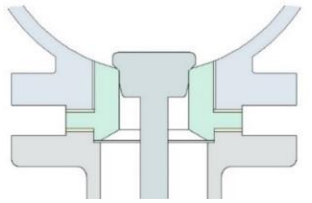
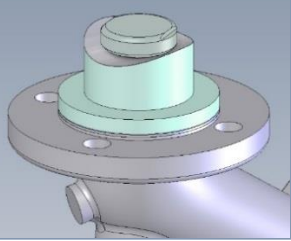
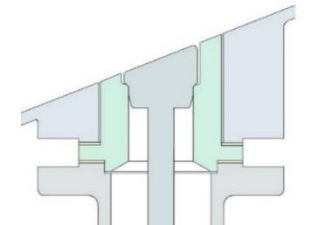
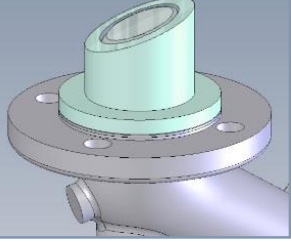
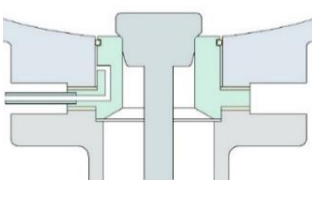
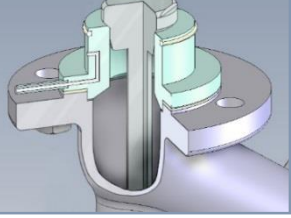
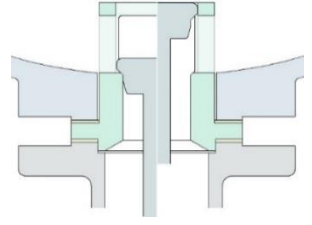
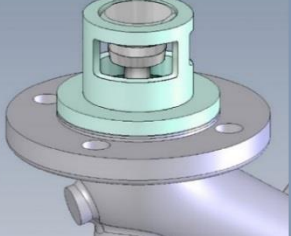
The seat's external diameter can be supplied with an O-ring seal to help prevent any media from entering the narrow space between the vessel nozzle and the seat.



### Seat with Jacking Screws

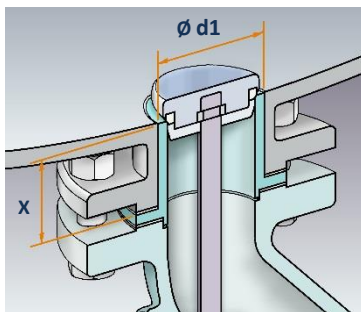
Special bolt-holes can be supplied in the seat base, to assist seat removal from the nozzle with jacking bolts.



<h3>Seat with Contour</h3>		
<p>Seat with a custom-made internal seat face to match the internal surface of the vessel, available even when that surface is not flat, symmetrical or regular.</p>		
<h3>Inclined Seat</h3>		
<p>Similar to the contoured seat but matched to the vessel/pipeline at any specific angle.</p>		
<h3>Seat with Leak Detection</h3>		
<p>By using an O-ring seal, any leakage through the O-ring area can be detected via continuous sampling through a monitor tube</p>		
<h3>Seat with Cage</h3>		
<p>The seat can be supplied with an upper cage section which functions as a support frame during emptying. This prevents disc misalignment as a result of media turbulence.</p>		

\*Most seat options shown are also available with piston valves

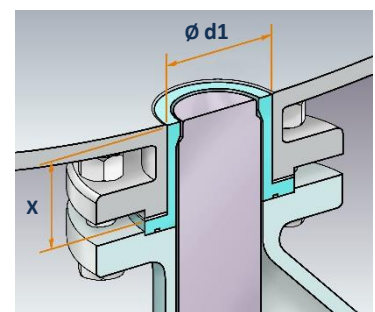
## Optimal Sizing of Disc and Piston Valve Seats



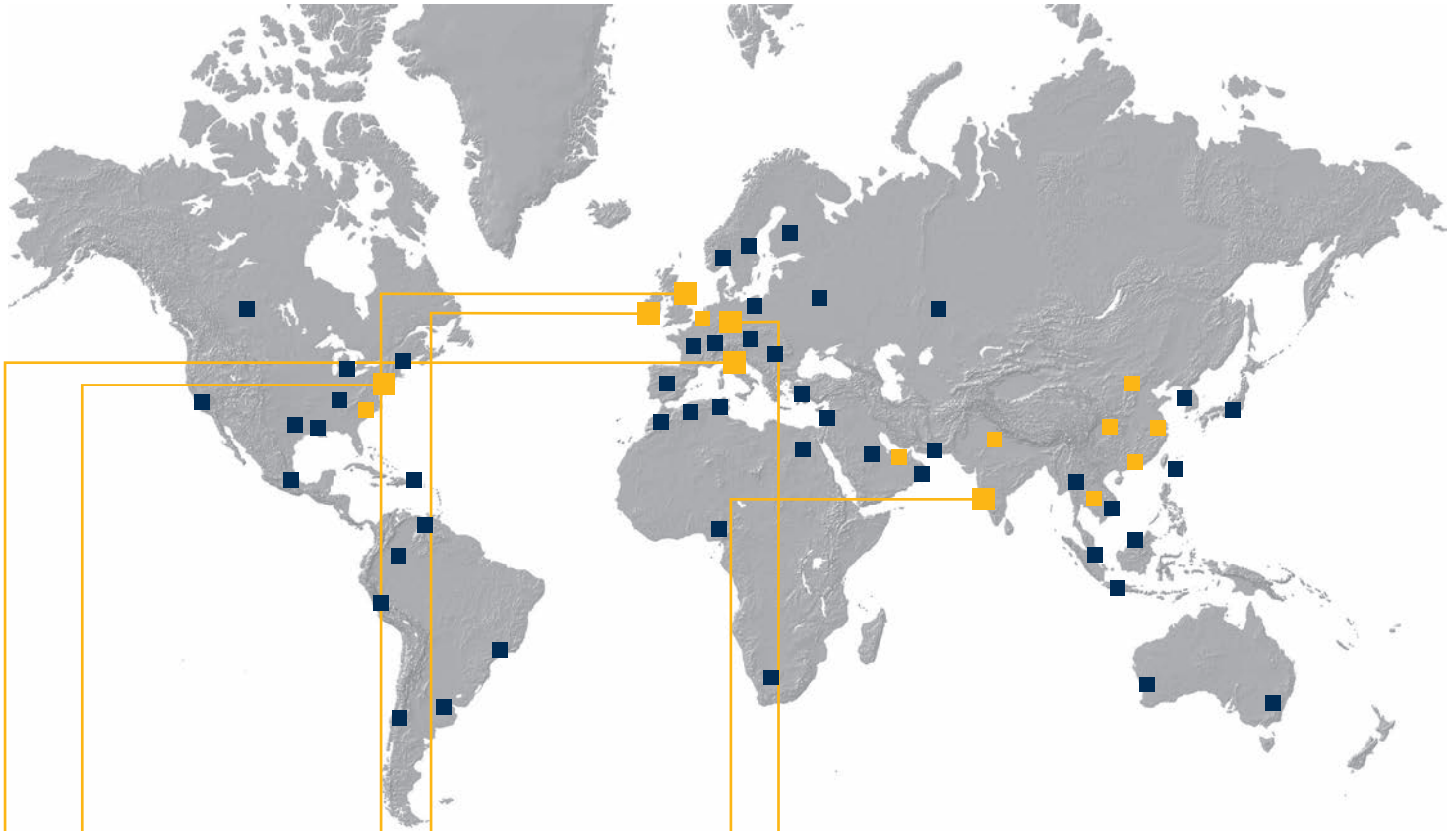
Valve seats are custom-fitted to match the vessel bore/flange dimensions.

The **external diameter of the seat (Ø d1)** is 1 mm less than the inner diameter of the vessel bore.

The **height of the seat (X)** matches the bore height and includes a gasket seal between the seat and the vessel.



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