

Thank You for Attending Our October Webinar:

Linear Globe vs Rotary Control Valves



Your Host

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Featured Speaker

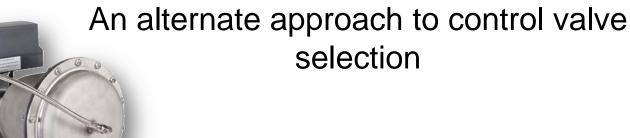
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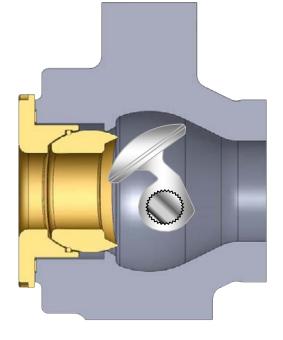


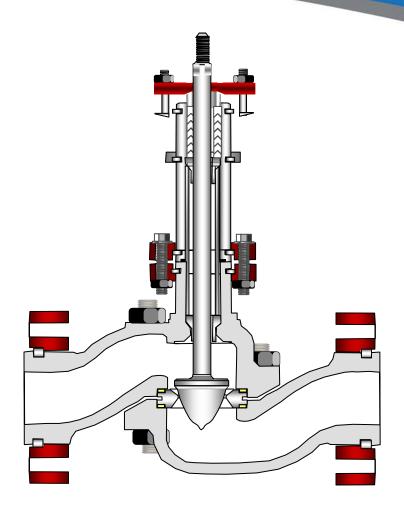
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RCV vs Globe











Nothing New (refineries)

- More capacity per valve size.
- Better packing life than a linear packing box on a globe.
- Good recovery in moderate pressure drop situations.





Commissioning a plant





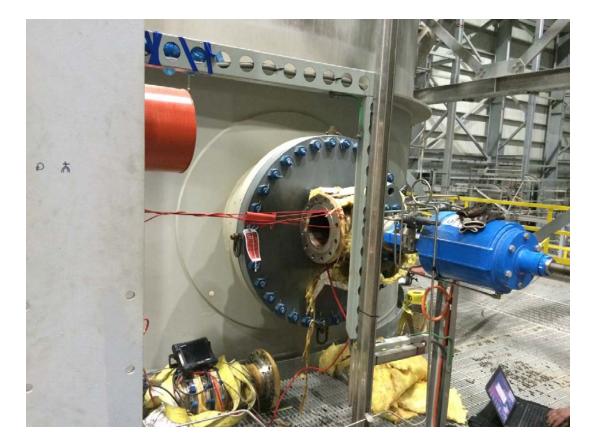
Conditions changed



Year 1 = 25%Year 2 = 60%Year 4 = 100%



Autoclave Level Control

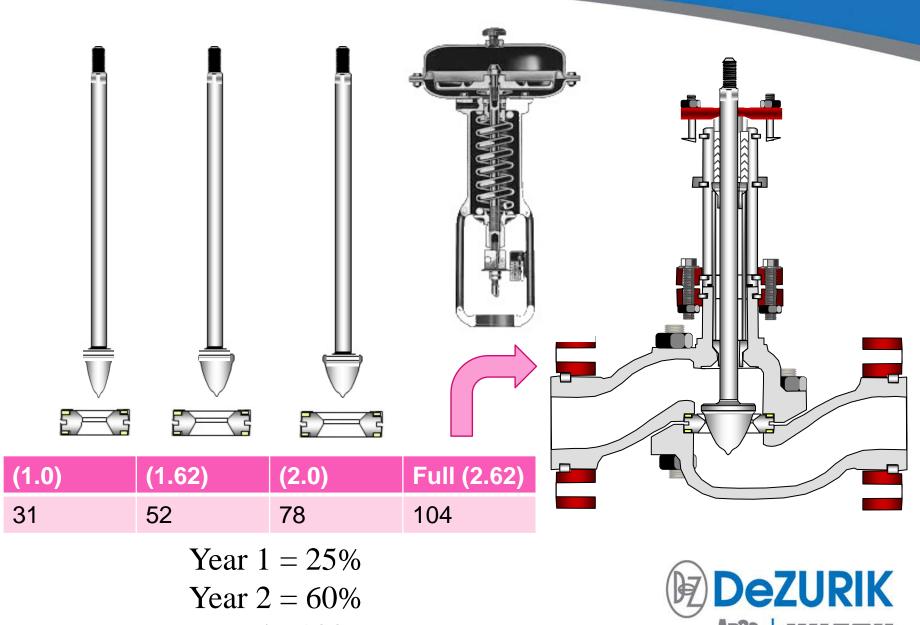




Aux Steam, Water – etc.

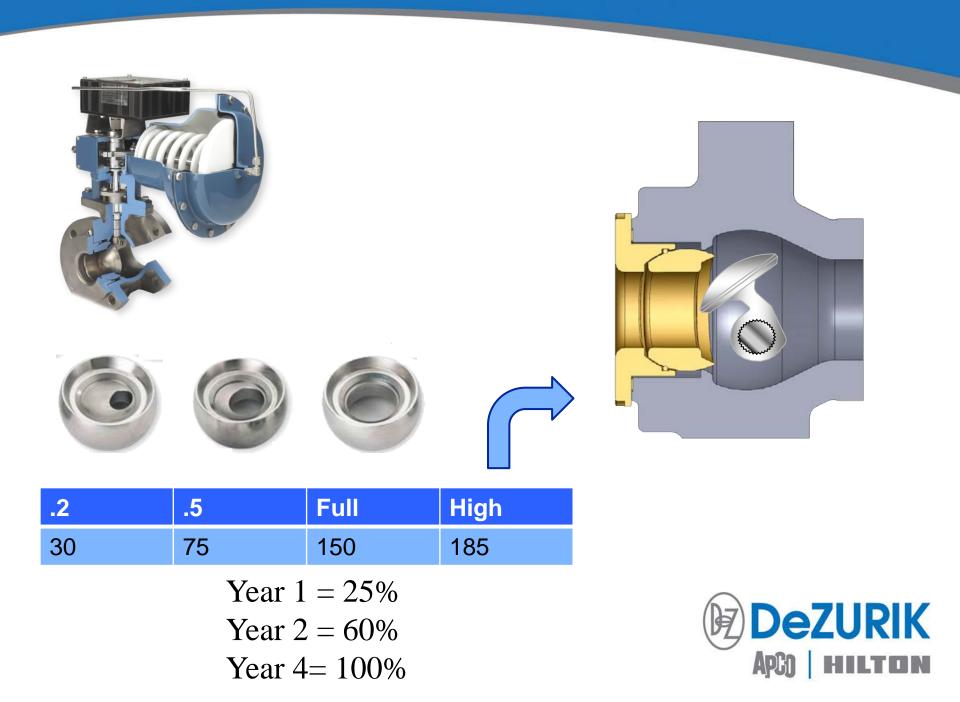






Year 4= 100%

APC) | HILTON



Valves in the RCV Class

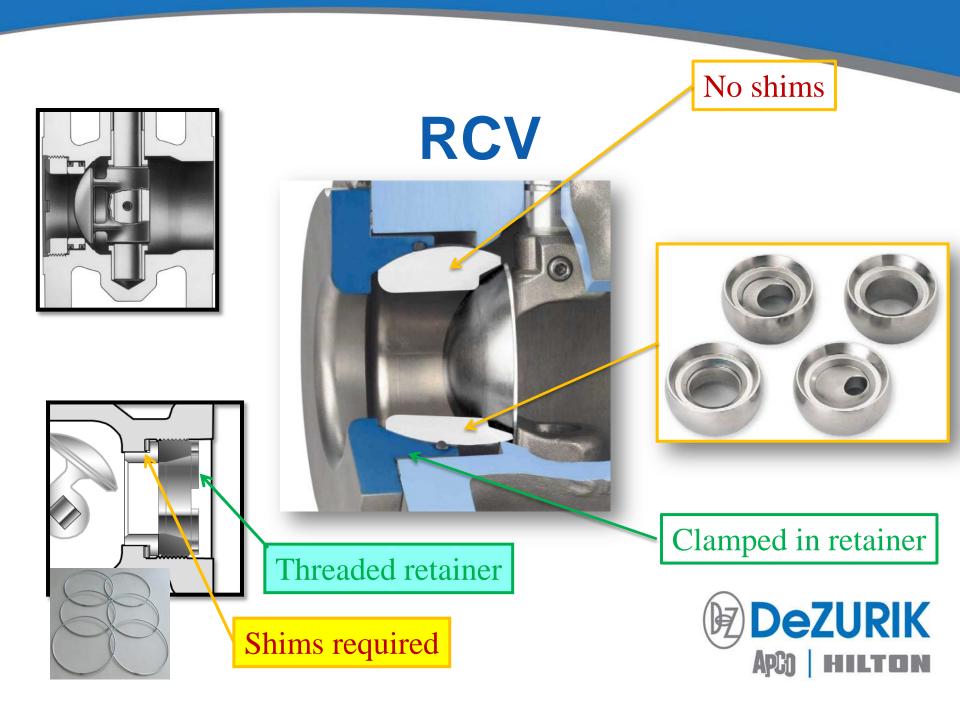


Camflex

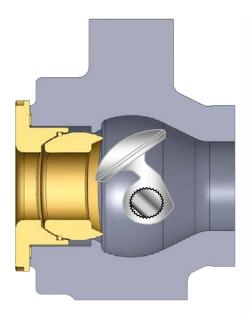


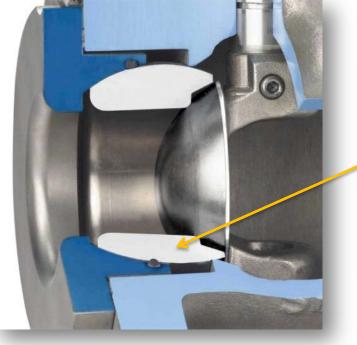
V500





RCV



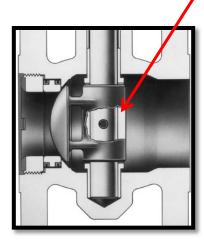


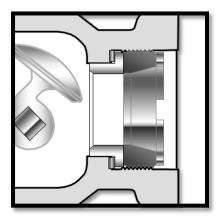


Easy maintenance – drop in seats

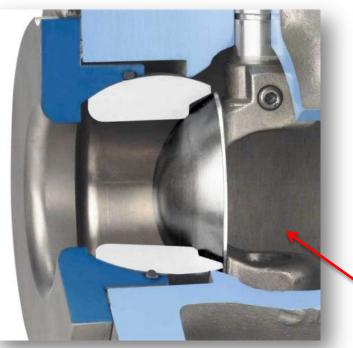






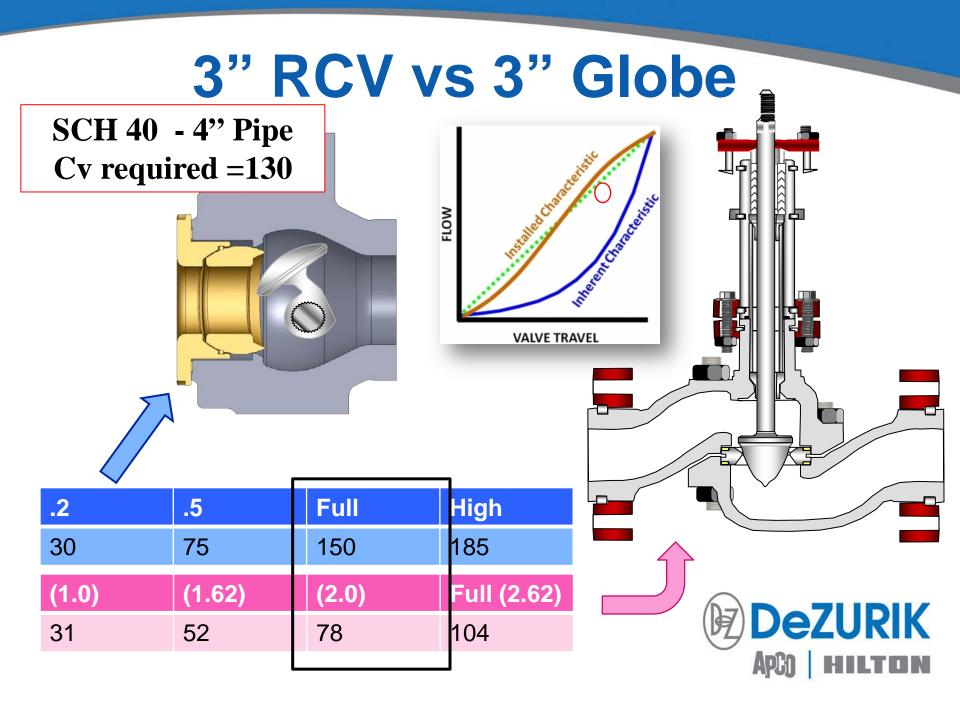


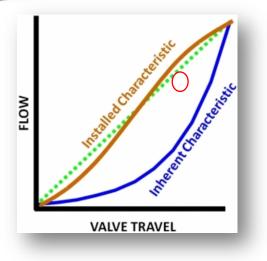
RCV

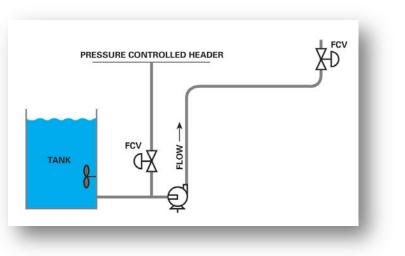




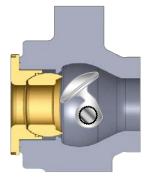








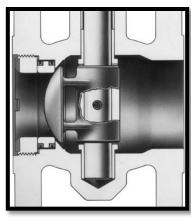
RCV Control

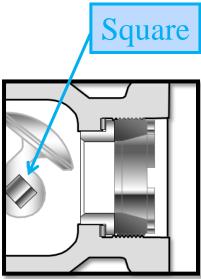


 Friction: Very low.
Hysteresis Dead band: Repeatable throttling

accuracy of $\pm 0.5\%$ over the entire range:













Coupling Assembly

0. Dezurik **}**₹) SolidsWorksTM Apg HILTON

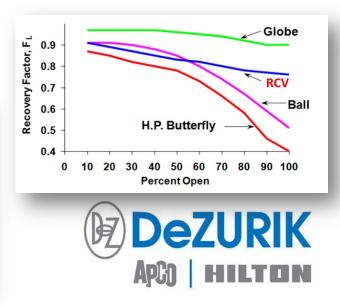
Why use the RCV

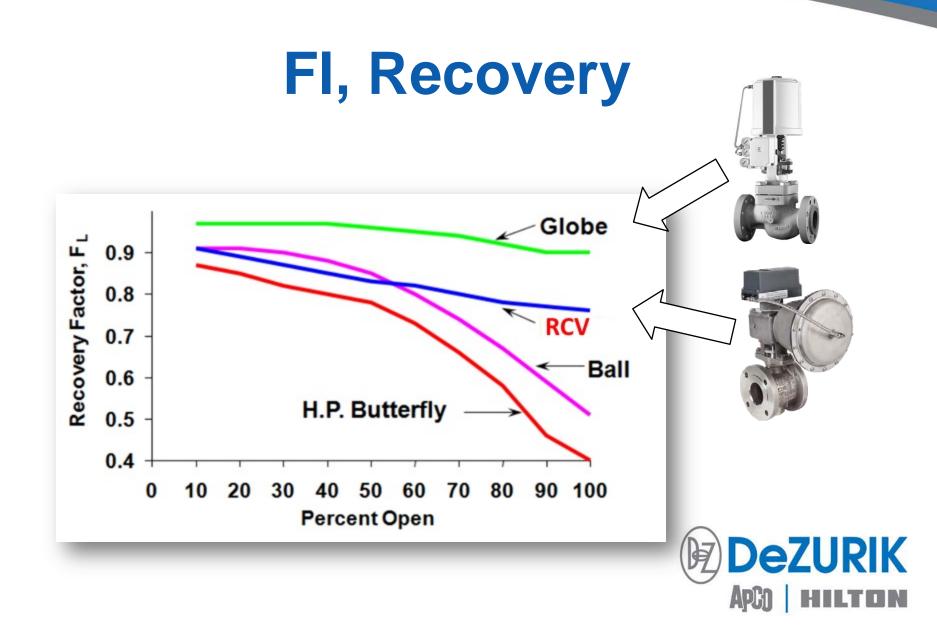
Higher Cv or capacity per size than a globe.
Use a smaller RCV in place of a larger globe \$\$\$
Easier to change trims than a globe (one orbital seat vs. plug and seat)

- Excellent Control
- Good recovery factor









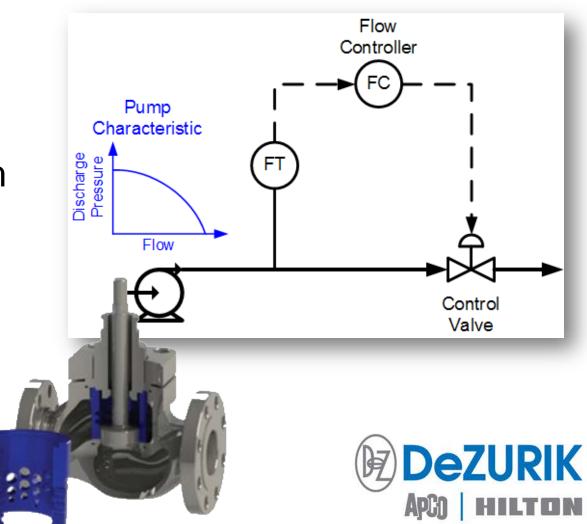
Case Study #1

- P1 =347 psia
- P2 =100 psia
- T= 100F
- Flow = 500 gpm
- 3" Sch. 40 Pipe

Cv Required = 32 Cavitation









RCV vs Globe





An alternate approach to control valve selection – *try it first*



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