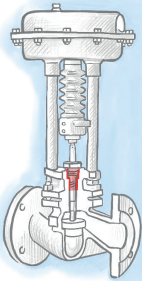


ARI's Control Valve Portfolio

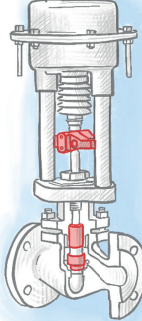


ARI-STEVI Control Valve Types

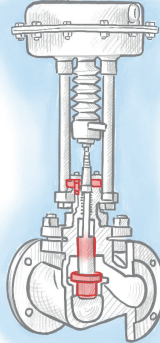
STEVI Smart
economic, proven



STEVI Vario
functional, variable



STEVI Pro
high-performance, flexible



Features

- reduced to the max
- spindle guided plug
- various steam sealings incl. stainless steel bellow

Typical Media*

- heat transfer oil
- chilled water

- fully replaceable trim
- shaft guided plug
- 360° rotatable actuator
- compact design
- quick coupling

- saturated steam
- neutral gases

- flow optimized body
- shaft guided plug (heavy)
- trim for critical applications / special trim options
- customized variants

- superheated steam
- flashing condensate

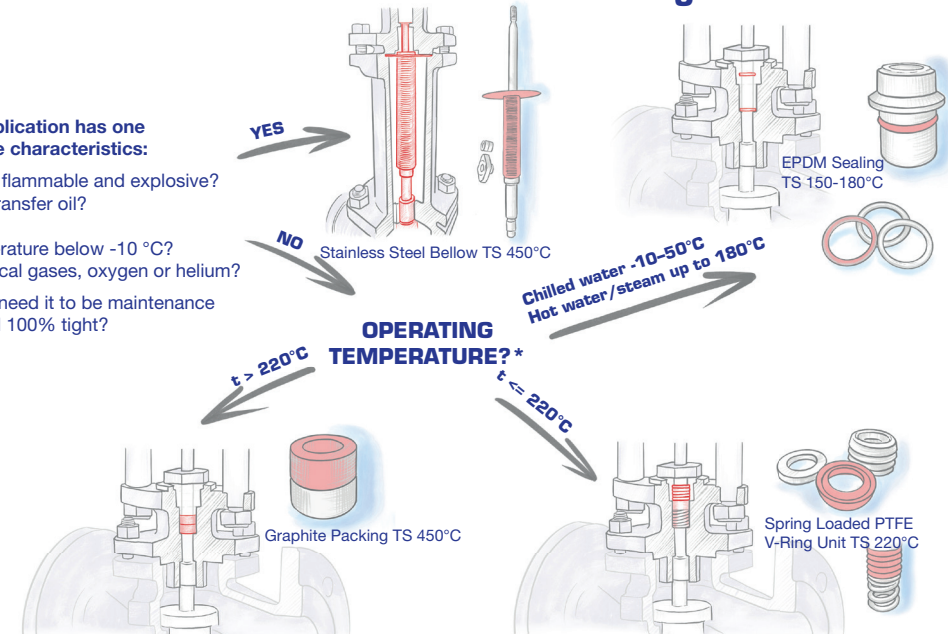
* Simplified presentation.

How to decide for the correct stem sealing

The application has one of these characteristics:

- highly flammable and explosive?
- heat transfer oil?
- toxic?
- temperature below -10 °C?
- technical gases, oxygen or helium?

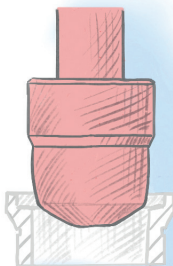
Do you need it to be maintenance free and 100% tight?



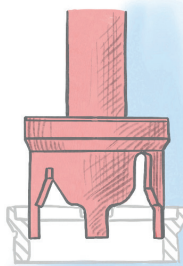
* Attention: Resistance and characteristics of media need to be considered as well as operating data and instructions from data sheet, norms, etc.

Different Plug Types

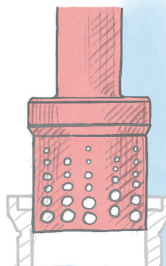
Parabolic Plug



V-Port Plug



Perforated Plug



Usage

- Preferred standard

- When max. differential pressure of parabolic plug is exceeded.

- For critical operating conditions like:
- High sound pressure level
 - Cavitation
 - Flashing
 - Flow restrictions (choked flow)

Pro's & Con's

- + not susceptible to dirt
- + good control quality
- limitation on Δp

- + more robust due to additional guidance in the seat
- susceptible to dirt
- reduced rangeability

- + more robust due to additional guidance in the seat
- susceptible to dirt
- reduced rangeability
- reduced kvs values

ARI-STEVI Control Valve Sizing*

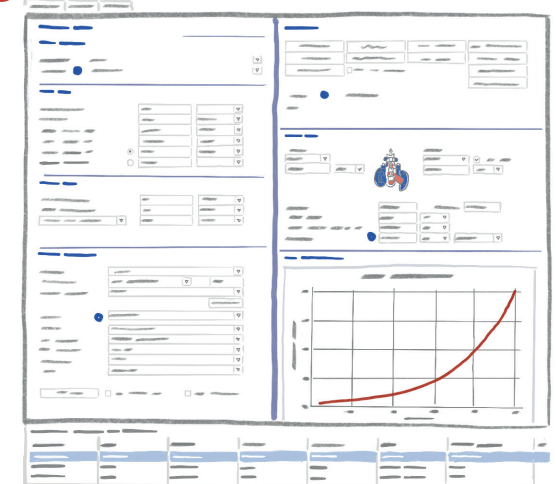
For control valve sizing the following data is needed:

- p1
- p2
- 1 - Media
- Temperature
- Flow Rate

ONE operating point → 2 myValve Valve Sizing and Selection Tool

ATTENTION:

For a reliable sizing minimum TWO operating points need to be considered – the minimum and the maximum operating point!
At least one of the operating data like flow rate or pressure is changing.



* Simplified process – to be continued...