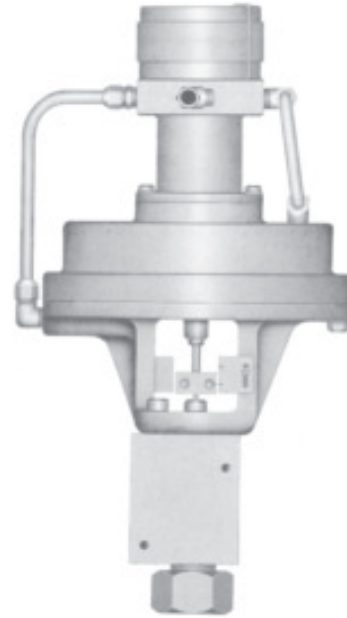


Super-High Pressure Angle Control Valve Model VAU

Introduction

The Super-High Pressure Angle Control Valves are designed for control of a super-high pressure, small flow medium.

The valve body is made of forged stainless steel and has a pressure rating of 3500kgf/cm². The actuator is made of high tensile strength aluminum alloy. The valve is sturdy, compact, and provides high control accuracy.



Specifications

Body

Type: Single-seated, forged angle valve

Size: To customer specifications

Rating: 3500kgf/cm²

End connection: To customer specifications

Material: SUS 630 (Precipitation-hardened stainless steel)

Bonnet: Integral construction with valve body (0 to 100°C)

Gland type: Screw gland

Packing: Teflon

Trim

Valve plug: Modified-linear, on-off

Material: Stellite

Actuator

Type: Springless type piston cylinder

Action: Direct or reverse

Air to diaphragm: 4kgf/cm² (maximum)

Pneumatic connection: Rc1/4 internal thread

Ambient temperature: -30 to +70°C

Valve action

Reverse action

Optional accessories: (provided upon request)

Positioner, limit switch, and solenoid valve

Performance

Rated Cv value: Refer to Table 1.

Permissible differential pressure:

300kgf/cm² (fully opened)

3500kgf/cm² (fully closed)

Seat leakage rate (percentage to rated Cv value):

0.01% or less (ANSI B16.104-1976 Class IV)

Hysteresis error: 2%FS or less (with positioner)

Linearity: ±2%FS or less (with positioner)

Dimensions: Refer to Figure 1, Table 2.

Weight: Refer to Table 2.

Finish: Graynish green (Muncell 5B4/1) or silver, or other specified colors.

Table 1. Flow coefficient Cv and stem travel

| Classify | For Control | | For On-off |
|-----------------|----------------|-------|------------|
| | Rated Cv value | 0.003 | 0.006 |
| Stem travel(mm) | 12.7 | | |

Table 2. Dimensions and weights

| Dimensions(mm) | H | B | Weight(kg) |
|----------------|-----|-----|------------|
| For control | 345 | 220 | |
| For on-off | 280 | 220 | |

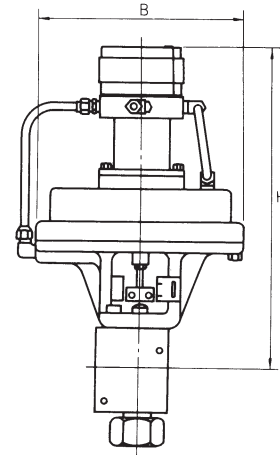


Figure 1. Dimensions

Ordering Information

When ordering, please specify;

- | | |
|--|---|
| <ul style="list-style-type: none"> 1) Model number: VAU 2) Valve size×Cv required 3) Type and rating of end connection 4) Body and trim material, and necessity of hardening treatment 5) Valve characteristics 6) Direct action or reverse action 7) Accessories (positioner, pressure regulator with filter, etc.) 8) Special requirement of oil/water prohibitive treatment, copper prohibitive treatment, etc. | <ul style="list-style-type: none"> 9) Name of flow medium 10) Normal flow and maximum required flow 11) Pressure of flow medium, upstream and downstream pressure at fully closed and fully opened. 12) Temperature and specific gravity of flow medium 13) Viscosity of flow medium, inclusive or exclusive of slurry or flushing |
|--|---|

Please read the "Terms and Conditions" from the following URL before ordering or use:

<http://www.azbil.com/products/bi/order.html>

Specifications are subject to change without notice.



Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa
Kanagawa 251-8522 Japan

URL: <http://www.azbil.com/>

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