

## HAP Pneumatic Angle Type Control Valve

### OVERVIEW

Model HAP series angle type control valve body adopts an angular structure, unbalanced multi-stage pressure drop control valve is suitable for applications with high differential pressure and applications that produce flash evaporation and cavitation. According to the requirements in different service conditions, it is designed with various multi-hole cages that form a multi-stage pressure drop trim, so that the internal energy of high speed media is consumed and flow velocity is reduced from the time when the fluids contact the first cage. As it is composed of various cages, the pressure is gradually reduced so that the medium pressure is always above the saturated vapor pressure, and the occurrence of flash evaporation and cavitation is eliminated. The standard configuration is the unbalanced single-seat plug and the plug and seat are subjected to hardening treatment to prolong the service life of the trim. The valves of large sizes can be designed with the balanced single-seat plug structure.

### STANDARD SPECIFICATION

#### Trim feature

Sleeve guided unbalanced trim structure, combination of multi-hole cages

#### Body type

Straight-through type, angle type

#### Bonnet type

Standard type, heat dissipation type, cryogenic type, bellows

#### Flow characteristic:

Equal percentage, linear, quick open

#### Shut-off class

ASME B16.104 V (standard metal seat) ASME B16.104 VI (shut-off soft seat)

#### Connection type

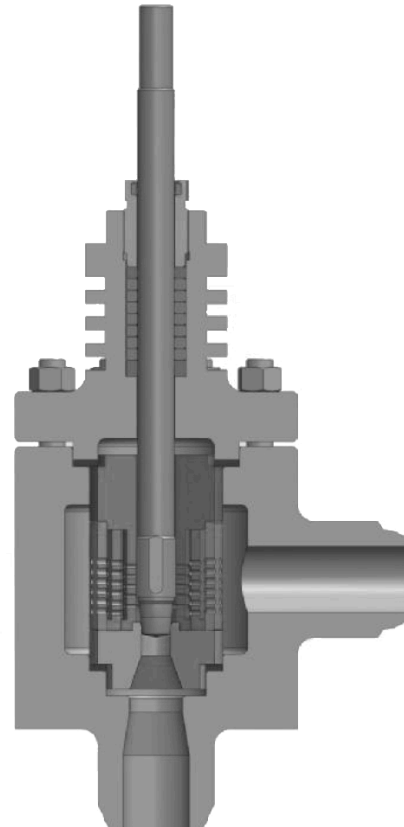
Flange type, butt welding type

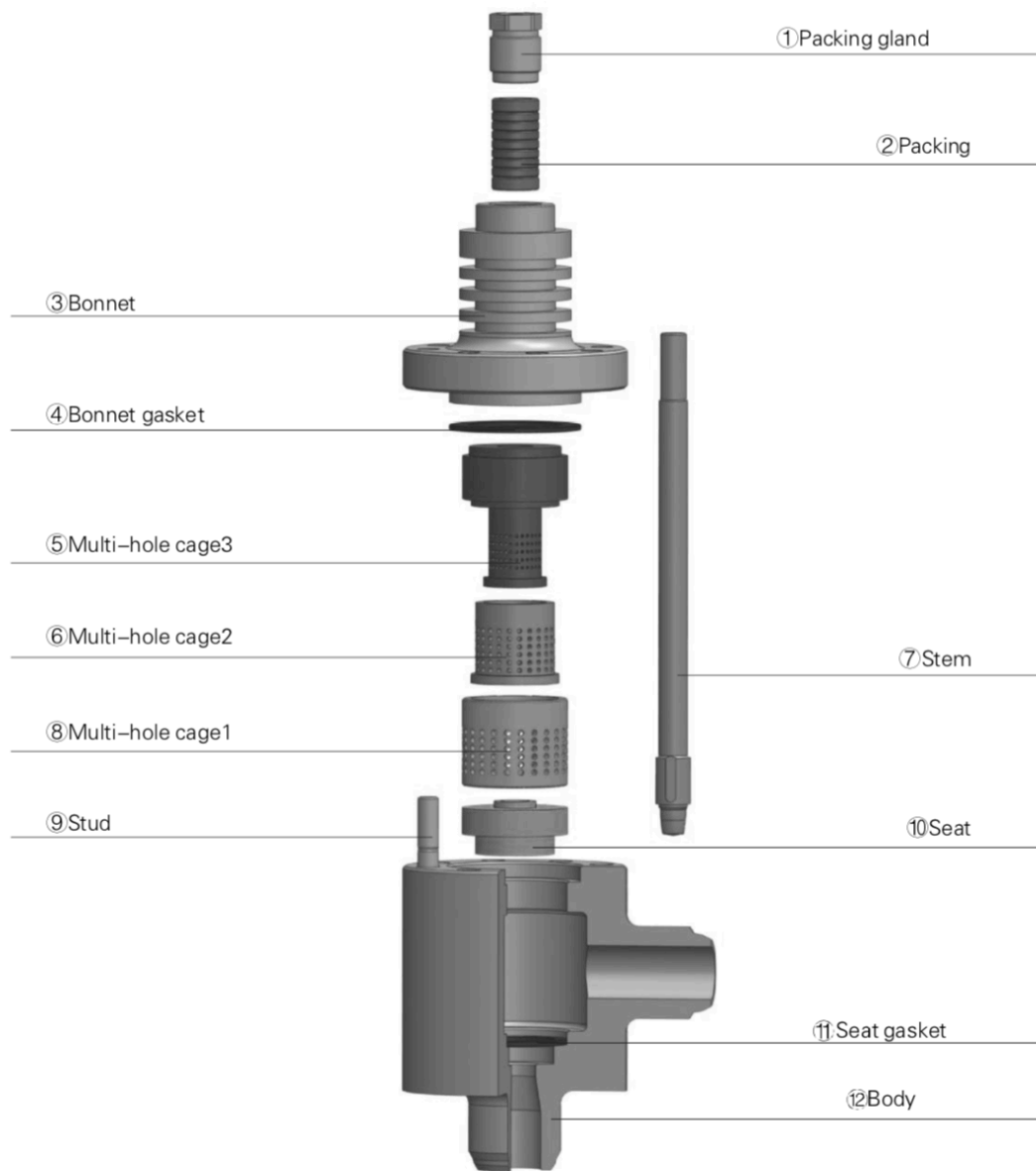
#### Applicable temperature range

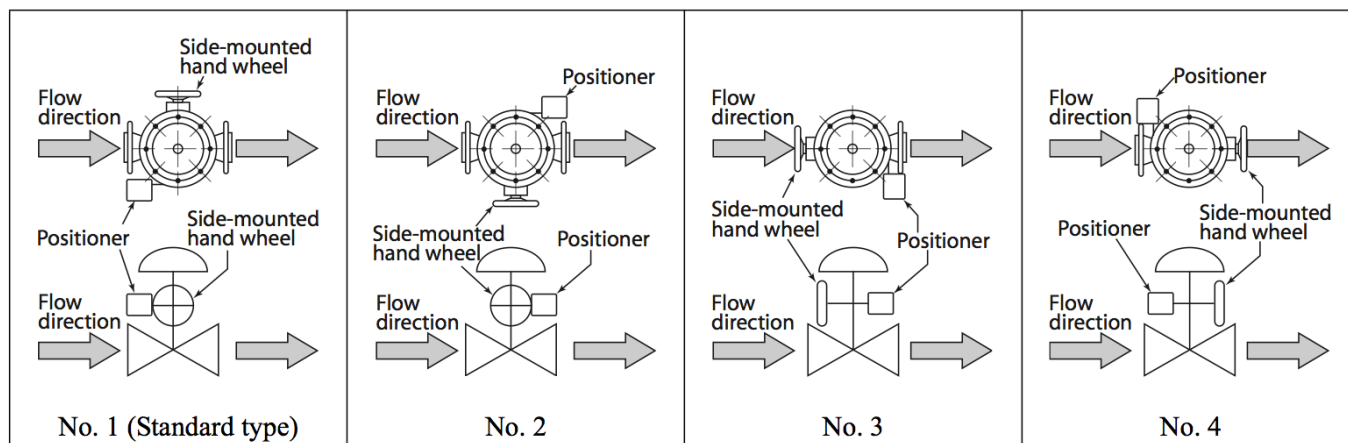
-196°C - 570°C

#### Actuator type

Pneumatic diaphragm actuator  
Pneumatic piston actuator  
Electric actuator







Note) Indicate by position number when installation other than the standard type is required.

\*Specifications are subject to change without notice.

## Ordering Information

When ordering, please specify;

- 1) Model Number: HAC
- 2) Nominal size × Cv required
- 3) Type and rating of end connections
- 4) Body and trim material, necessity of hardening
- 5) Type of bonnet
- 6) Valve and plug characteristics
- 7) Type of actuator, necessity of hand wheel, and air to diaphragm
- 8) Valve action (direct or reverse)
- 9) Accessories (pressure regulator and etc.)
- 10) Special requirement of degreasing, copper free and etc.
- 11) Name of flow medium
- 12) Normal flow and maximum required flow
- 13) Pressure of flow medium, upstream and downstream pressure at maximum and minimum, required flow
- 14) Temperature and specific gravity of flow medium
- 15) Viscosity of flow medium, inclusive or exclusive of slurry



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