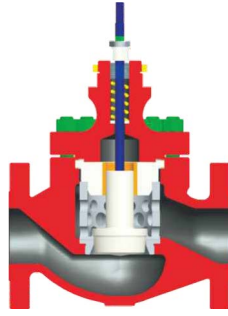


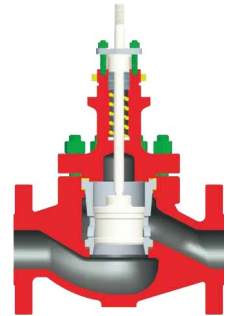
### KA-10S Series

Single Seated Control Valves



### KA-10S/L Series

Cage Single Seated Control Valves



### KA-10C Series

Cage Double Seated Control Valves

#### Applications

Applicable to a wide scope of various kinds of liquids in different pressure and temperature. Superior in accurate adjustment and tight shutoff.

High performance in flashing and cavitation environments.

Widely used in high pressure, high pressure drop, high temperature, low temperature liquids. High performance in flashing, cavitation, low-noise and high-stability environments.

#### Structure Features

Top-guided structure, single-seated seal, accurate adjustment, available in metal and soft seats

Cage single-seated seal, plug outer rings equipped with adapter sleeve

Cage double-seated seal, plug and cage self guided, four holes in the cage

#### Sizes

DN 15 ~ 200 NPS 1/2" ~ 8"

DN 15 ~ 200 NPS 1/2" ~ 8"

DN 40 ~ 200 NPS 1-1/2" ~ 8"

#### Ratings

PN 16, 40, 100 ANSI 150, 300, 600

PN 16, 40, 100 ANSI 150, 300, 600

PN 16, 40, 100 ANSI 150, 300, 600

#### End Connections

Flanged: FF, RF, RJ, FM  
Standards: ASME B16.5  
JIS B 2201, GB / T 9113  
Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ )  
Standards: ASME B 16.11  
ASME B 16.25

Flanged: FF, RF, RJ, FM  
Standards: ASME B16.5  
JIS B 2201, GB / T 9113  
Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ )  
Standards: ASME B 16.11  
ASME B 16.25

Flanged: FF, RF, RJ, FM  
Standards: ASME B16.5  
JIS B 2201, GB / T 9113  
Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ )  
Standards: ASME B 16.11  
ASME B 16.25

#### Body Materials

Alloy steel, stainless steel, steel

Alloy steel, stainless steel, steel

Alloy steel, stainless steel, steel

#### Plug and Seat Materials

Plug: 304, 316, 304L, 316L, 304+STL, 316+STL,  
Seat: 304, 316, 304L, 316L, 304+STL, 316+STL, PTFE

Plug: 316, 316L, 304+STL, 316+STL  
Seat: 304, 316L, 304+STL, 316+STL, PTFE

Plug: 316, 316L, 304+STL, 316+STL, 17-4PH  
Seat: 316, 316L, 17-4PH, PTFE

#### Flow Characteristics and Maximum Flow Coefficients

Flow - Open: equal percentage or linear  
Cv value: 0.01 to 700

Flow - Open: equal percentage or linear  
Cv value: 0.01 to 310

Equal percentage or linear  
Cv value: 11 to 850

#### Shutoff Class (ASME B16.104)

Metal seat: Class IV  
Soft seat: Class VI

Metal seat: Class IV  
Soft seat: Class VI

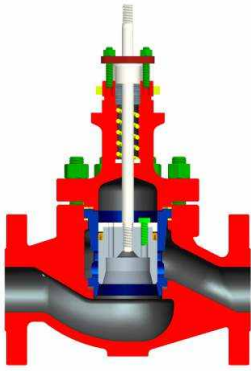
Metal seat: Class III  
Soft seat: Class VI

#### Available Actuator Types

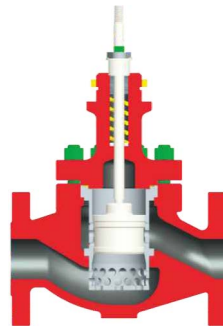
HA or VA 6 pneumatic actuators and 3610L electronic electric actuators

HA or VA 6 pneumatic actuators and 3610L electronic electric actuators

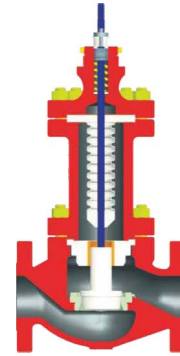
HA or VA 6 pneumatic actuators and 3610L electronic electric actuators



**KA-10C/D Series**  
Low Leakage Cage Control Valves



**KA-10C/K Series**  
Low Noise Cage Control Valves



**KA-14S Series**  
Bellows Seal Single-Seated Control Valves

Applications		
Widely used in high pressure, high pressure drop processing lines, and the environments where strict sealing is required.	Applicable to compressible liquids such as vapor, air and natural gas. Especially suitable for high temperature, high pressure or high pressure drop processing lines.	Applicable to poisonous or high-volatility mediums and vacuum environment. Effectively preventing pollution and explosion accidents.
Structure Features		
Cage structure and top guided, pressure-balanced plug. Spring loaded sealing ring enhances shutoff class.	Cage double seated seal, large guiding area in plug and cage ensures stable operation, cage with many small holes eliminates erosion caused by cavitation, body is equipped with diversion wing.	Top guided structure, single-seated seal, stem rotating-proof design prevents bellows from damage. back seal is composed of bellows and packing.
Sizes		
DN 40 ~ 200 NPS 1-1/2" ~ 8"	DN 40 ~ 200 NPS 1-1/2" ~ 8"	DN 25 ~ 200 NPS 1" ~ 8"
Ratings		
PN 16, 40, 100 ANSI 150,300,600	PN 16, 40, 100 ANSI 150,300,600	PN 16, 40, 100 ANSI 150,300,600
End Connections		
Flanged: FF, RF, RJ, FM Standards: ASME B16.5 JIS B 2201, GB / T 9113 Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ ) Standards: ASME B 16.11 ASME B 16.25	Flanged: FF, RF, RJ, FM Standards: ASME B16.5 JIS B 2201, GB / T 9113 Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ ) Standards: ASME B 16.11 ASME B 16.25	Flanged: FF, RF, RJ, FM Standards: ASME B16.5 JIS B 2201, GB / T 9113 Welded: SW ( $\leq 50$ ) BW ( $\geq 65$ ) Standards: ASME B 16.11 ASME B 16.25
Body Materials		
Alloy steel, stainless steel, steel	Alloy steel, stainless steel, steel	Alloy steel, stainless steel, steel
Plug and Seat Materials		
Plug: 316, 316L, 304+STL, 316+STL, 17-4PH Seat: 316, 316L, 17-4PH, PTFE	Plug: 316, 316L, 316+STL, 304+STL, 17-4PH Seat: 316, 316L, 17-4PH	Plug: 304, 316, 304L, 316L, 316+STL, 304+STL Seat: 304, 316, 304L, 316L, 304+STL, 316+STL, PTFE
Flow Characteristics and Maximum Flow Coefficients		
Equal percentage or linear Cv value: 11 to 850	Close to linear Cv value: 11 to 580	Flow - Open: equal percentage or linear Cv value: 11 to 850
Shutoff Class (ASME B16.104)		
Metal seat: Class IV Soft seat: Class VI	Class III	Soft seat: Class VI Metal seat : Class IV
Available Actuator Types		
HA or VA 6 pneumatic actuators and 3610L electronic electric actuators	HA or VA 6 pneumatic actuators and 3610L electronic electric actuators	HA or VA 6 pneumatic actuators and 3610L electronic electric actuators