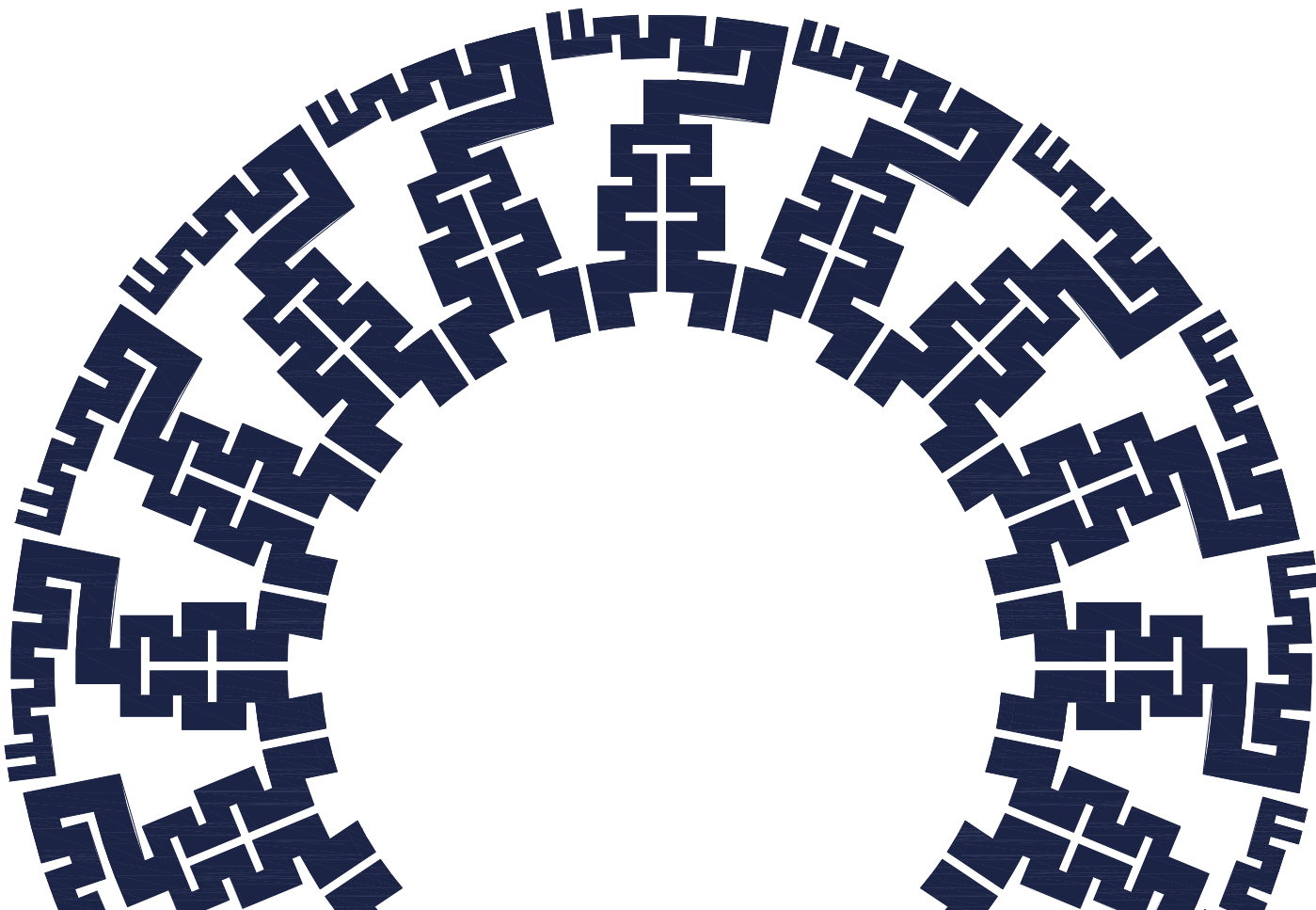


Globe Control Valves



AGR VALVES srl is a prominent professional valve manufacturer whom strengthened by the design, manufacture and supply Ball valves, Gate, Globe, Plug & Axial flow Check valves with integrated capabilities of design, manufacturer, testing, supply.

AGR VALVES srl is located in Lonate Pozzolo, Italy, is aimed to satisfy the customer's most strict requirements in terms of design and manufacturing of valves for Oil & Gas, Chemical and Water Power Plant.

AGR VALVES srl was founded in 2015 by an Italian team of people coming from previous long experiences acquired in other valves companies internationally recognized. A professional and expert Project Team can support clients in designing optimum solution and produc puts HSE first and foremost in the minds of its employee. Company's commitment to health, safety, and the environment is always highlighted both internally and externally the organization.

AGR VALVES srl Corporate Policy has a comprehensive quality assurance plan in accordance with the requirements of API-Q1 and ISO- 9001-2015 standards, which is the guideline of our management team. The most common materials used for the manufacturing of our products are: Carbon Steel, Duplex, Super Duplex, Titanium, Monel, Inconel, SMO and other special alloy material upon request.



Globe Control Valves



Size Range: DN 2" to 16"

Pressure Class: ASME 150# to 1500#.

Material: Carbon Steel, Stainless Steel, Alloy Steel, Duplex-Superduplex.

Application: Pneumatic Control Valve is a valve used to control fluid flow rate by varying the size of flow passage as directed by compressed air supply. The pneumatic control signal are traditionally based on a pressure range of 3-15 psi (0,2-1,0 bar) or commonly now, an electrical signal of 4-20 mA. Electric control often include a SMART communication signal superimposed on the 4-20 mA control current, such that the verification of the valve position can signalled back to the controller.

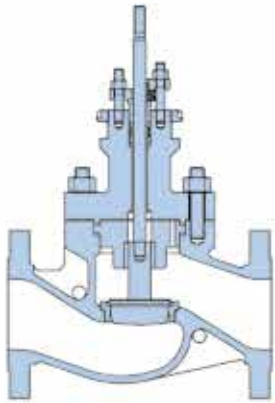
Generally pneumatic control valves are equipped by an electro-pneumatic positioner (converter) signal from 4-20 mA to 3-15 psi plus valve position and condition monitoring in an integral unit mounted on valve body. The most common and versatile types of control valves are straight-through or angle sliding-stem globe. Equal Percentage, Linear and Quick Opening Plug type.
- Rangeability 50:1.

Leakage Rate:

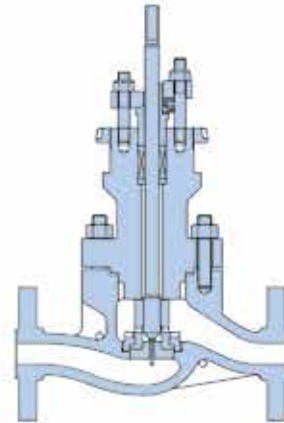
According to ASME FCI 70-2
Class IV (Metal Seat) - Class VI (Soft Seat).
Design Temperature: -30°C to 260°C-
Design ASME B16.34.
Line Connections: ASME B16.5

Globe Valves

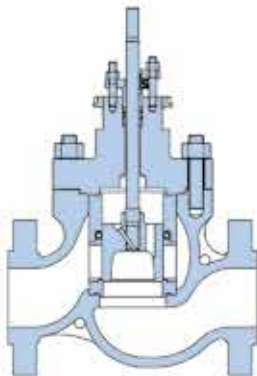
The globe valve is the most common and reliable product used in process control with many types and structures which is applicable in different working conditions, including normal temperature and pressure to all kinds of severe service. You can always find what you need for process control in AGR.



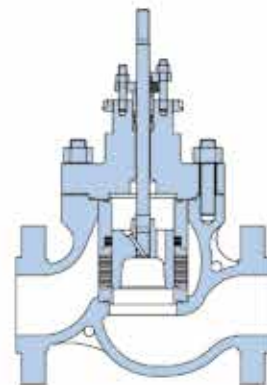
GS100 Top Guided Single Seat Globe Valve



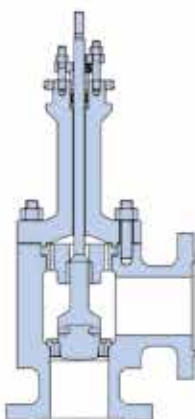
GS200 Small Flow Single Seat Globe Valve



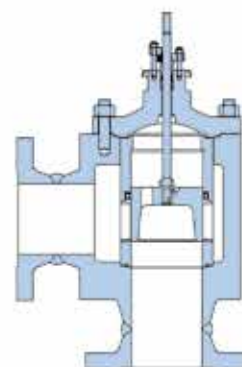
GC100 Cage Guided Globe Valve



GC200 Multi-hole Cage Guided Globe Valve

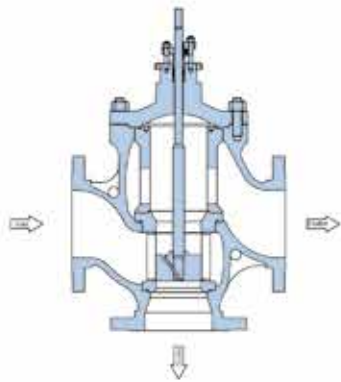


AS100 Top Guided Single Seat Angle Valve

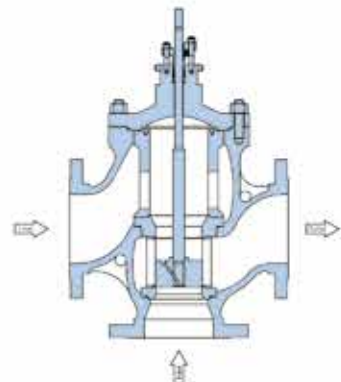


AC100 Cage Guided Angle Valve

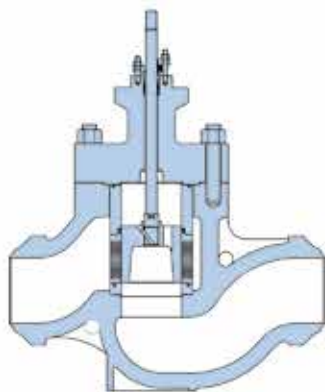
Various Kinds of Valve are Optional



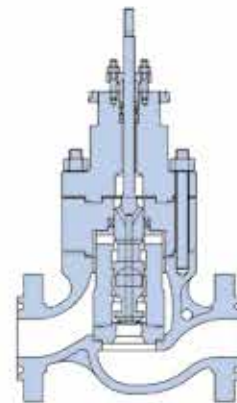
GT100 Cage Guided 3-Way
Diverting Globe Valve



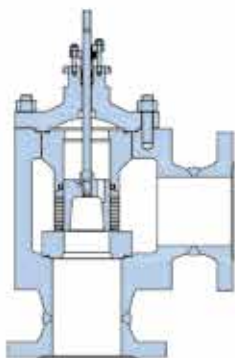
GT200 Cage Guided 3-Way
Mixing Globe Valve



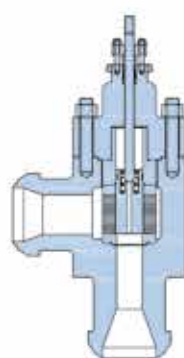
GC300 Labyrinth Cage
Guided Globe Valve



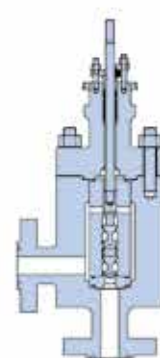
GC400 Multi-step Plug Cage
Guided Globe Valve



AC200 Multi-hole Cage
Guided Angle Valve

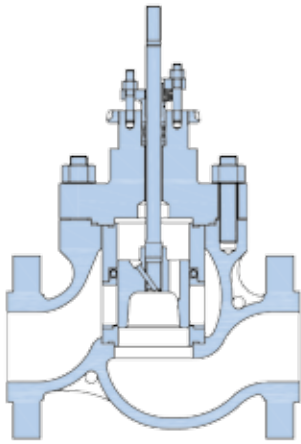


AC300 Labyrinth Cage
Guided Angle Valve

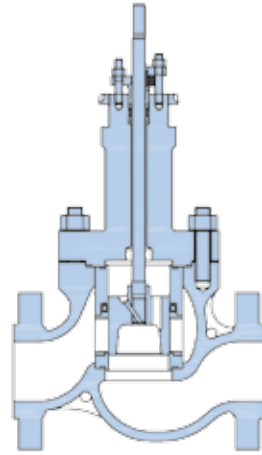


AC400 Multi-step Plug
Cage Guided Angle Valve

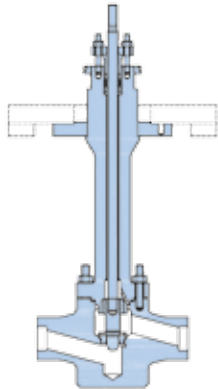
Various Kinds of Bonnet are Optional



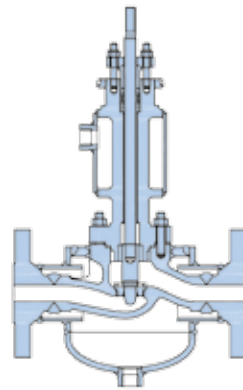
Standard Bonnet
(-17~+230 C)



Extension Bonnet
(-45~-17 C, ≥230 C)

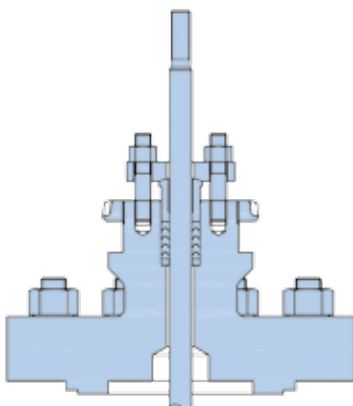


Cryogenic Bonnet
(With Cool Box Plate) (-196~-45 C)

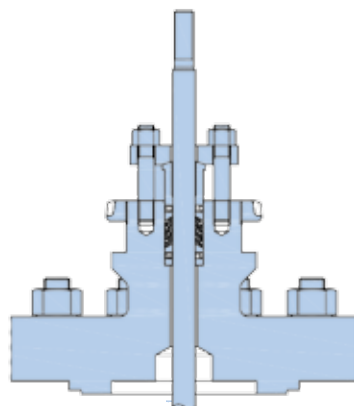


Full-Jacket Bonnet & Body

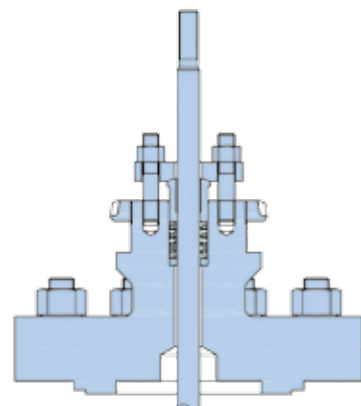
Various Kinds of Packing are Optional



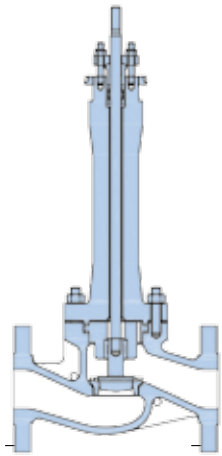
RFFE V Ring Packing



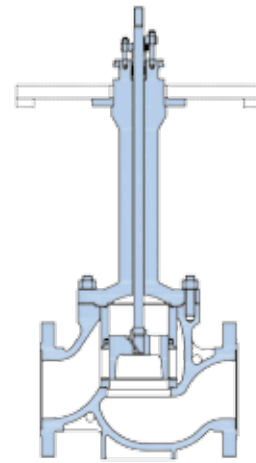
EVSP9000 Graphite
Packing



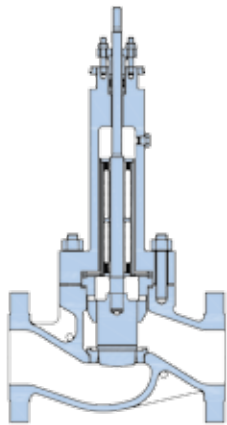
Square Braided
Fiber Packing



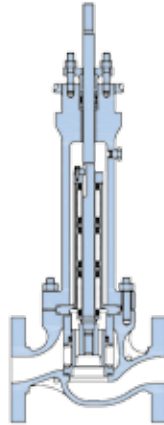
Cryogenic Bonnet
(Without Plate)(-196~-45 °C)



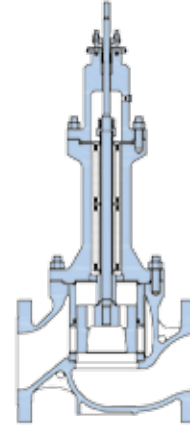
Cryogenic Bonnet
(With Cool Box Plate) (-196~-45 °C)



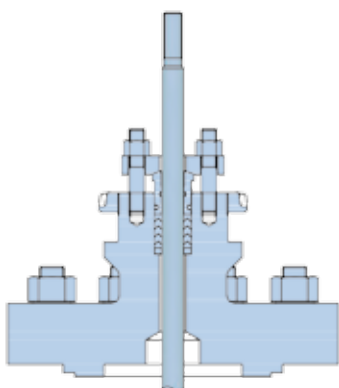
GS100 Bellows Bonnet



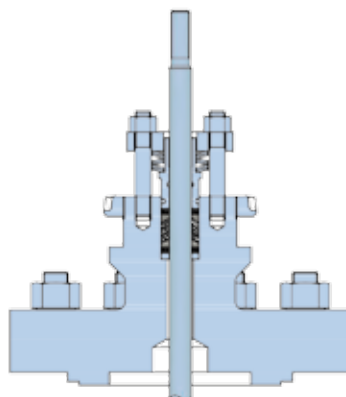
GC100 Bellows Bonnet
(Up to 4")



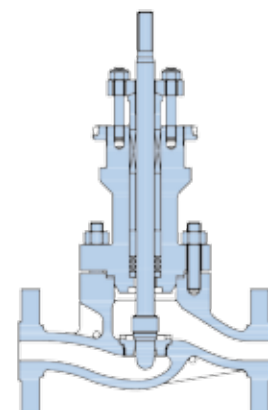
GC100 Bellows Bonnet
(Over 6")



Double Seal Packing
(-45 °C ~+200 °C)



Low Fugitive
Emissions Live-Loading
Packing for API 622



Packing for Slurry
Service

GC SERIES CAGE GUIDED GLOBE VALVES

Various Kinds of Cage are Optional



GC100 EQ% Cage



GC200 EQ% Cage



GC100 Linear Cage

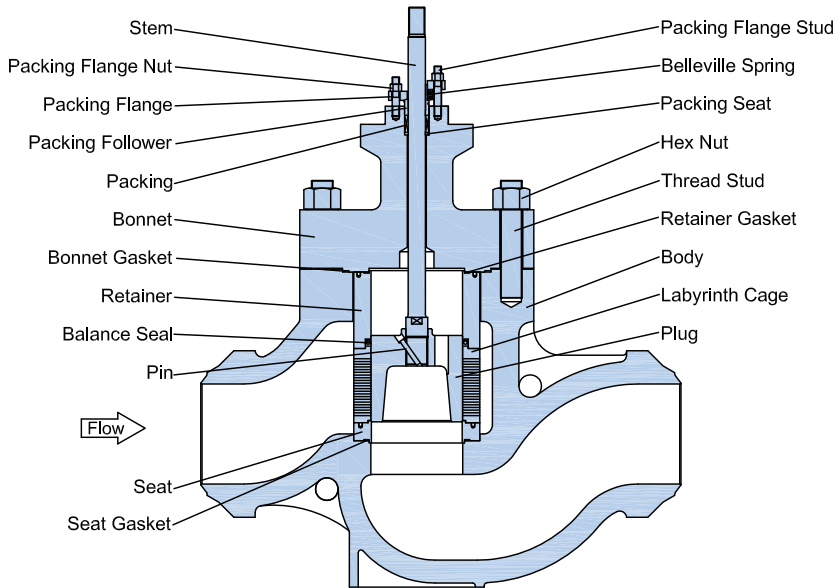


GC200 Linear Cage

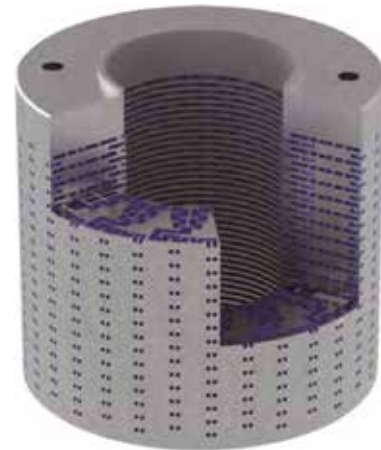
Specifications

Body Styles	GC100: Globe Valve AC100: Angle Valve		GC200: Globe Valve AC200: Angle Valve	
Body Size	1"~32"		1"~18" 1"~16"	
Body Rating	ANSI 150#~600		ANSI 900#~1500# ANSI 2500#	
Connections	Flanges, Butt Weld, Socket Weld, Integral Flanges, etc...			
Fluid Temperature	-196~+565℃			
Body Material	WCB/A105, WC6/F11, WC9/F22, LCB/LF2, CF8/F304, CF8M/F316, CF3/F304L, CF3M/F316L, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...			
Trim Material	A182-F6a, A182-F316, A564-630, F11/Stellited, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...			
Flow Characteristics	EQ%, Linear, Modified EQ%, Modified Linear			
Rangeability	50:1			
Seat	Metal Seat	ANSI Class IV, V or MSS-SP-61		
Leakage	Soft Seat	ANSI Class VI		
Actuator Combination	D100LA: Multi-spring Pneumatic Diaphragm Actuator P100LA: Pneumatic Piston Cylinder Actuator			

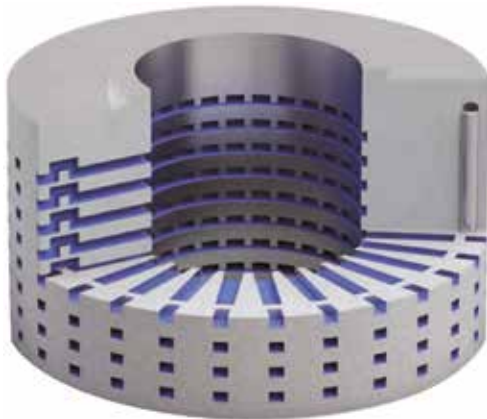
LABYRINTH CAGE GUIDED GLOBE VALVES



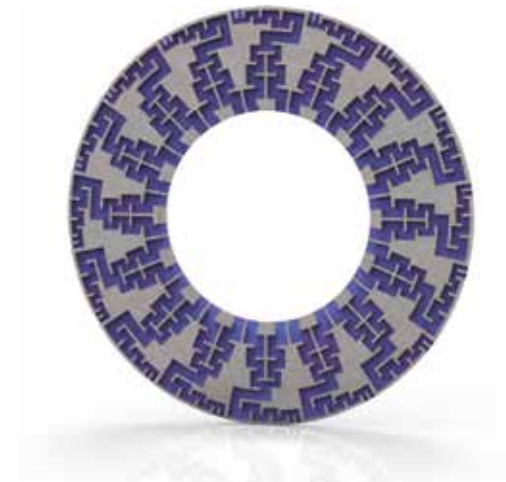
GC300 Parts List



Labyrinth Cage



GC300 Labyrinth Cage with Large Path



Disc of Labyrinth Cage after EDM

Specifications

Body Styles	GC300: Globe Valve		AC300: Angle Valve
Body Size	1"~32"	1"~24"	1"~18"
Body Rating	ANSI 150#~600	ANSI 900#~1500#	ANSI 2500#
Connections	Flanges, Butt Weld, Socket Weld, Integral Flanges, etc...		
Fluid Temperature	-196~+565°C		
Body Material	WCB/A105, WC6/F11, WC9/F22, LCB/LF2, CF8/F304, CF8M/F316, CF3/F304L, CF3M/F316L, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Trim Material	A182-F6a, A182-F316, A564-630, F11/Stellited, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Flow Characteristics	Linear, Modified Linear, Modified EQ%		
Rangeability	20:1~50:1		
Seat Leakage	Metal Seat	ANSI Class IV, V or MSS-SP-61	
	Soft Seat	ANSI Class VI	
Actuator Combination	D100LA: Multi-spring Pneumatic Diaphragm Actuator P100LA: Pneumatic Piston Cylinder Actuator		

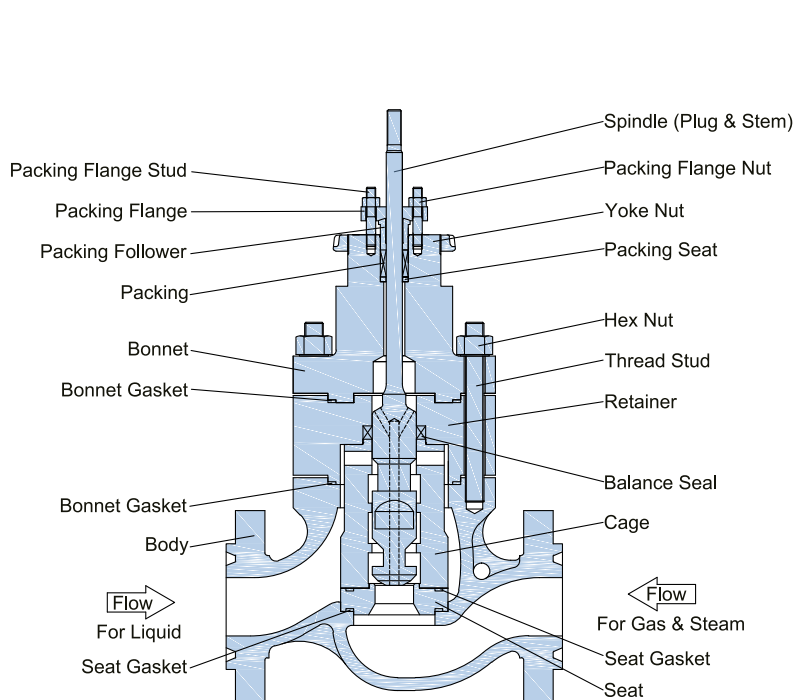
Multi-step Plug Cage Guided GLOBE VALVES

GC400: Multi-step Plug Cage Guided Globe Valve

AC400: Multi-step Plug Cage Guided Angle Valve

Regulating valve with multi-step plug of series GC400 and AC400 of AGR is specially designed for liquid with high pressure drop. This kind of valve adopts the same multi-stage pressure reducing principles with the labyrinth cage valve. Yet the flow channel is the adjustable large flow path which ensures smooth flow through the bending path if particles and impurities contained in the fluid.

The flow channel is not of right angle turning, thus the velocity control is not as good as labyrinth cage valve. Therefore this valve is recommended when only particles contained in the flow.



GC400 Parts List



Multi-step Plug



Multi-step Cage

Specifications

Body Styles	GC400: Globe Valve		AC400: Angle Valve
Body Size	1"~32"	1"~24"	1"~18"
Body Rating	ANSI 150#~600	ANSI 900#~1500#	ANSI 2500#
Connections	Flanges, Butt Weld, Socket Weld, Integral Flanges, etc...		
Fluid Temperature	-196~+565°C		
Body Material	WCB/A105, WC6/F11, WC9/F22, LCB/LF2, CF8/F304, CF8M/F316, CF3/F304L, CF3M/F316L, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Trim Material	A182-F6a, A182-F316, A564-630, F11/Stellited, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Flow Characteristics	Linear, Modified Linear		
Rangeability	30:1~50:1		
Seat	Metal Seat	ANSI Class IV, V or MSS-SP-61	
Leakage	Soft Seat	ANSI Class VI	
Actuator Combination	D100LA: Multi-spring Pneumatic Diaphragm Actuator P100LA: Pneumatic Piston Cylinder Actuator		

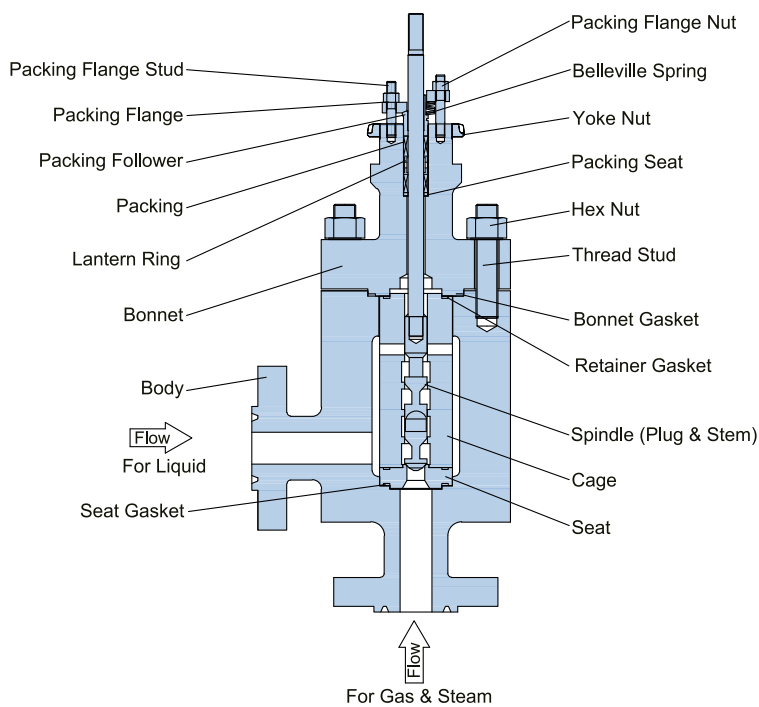
Multi-step Plug Cage Guided GLOBE VALVES

GC400: Multi-step Plug Cage Guided Globe Valve

AC400: Multi-step Plug Cage Guided Angle Valve

Regulating valve with multi-step plug of series GC400 and AC400 of AGR is specially designed for liquid with high pressure drop. This kind of valve adopts the same multi-stage pressure reducing principles with the labyrinth cage valve. Yet the flow channel is the adjustable large flow path which ensures smooth flow through the bending path if particles and impurities contained in the fluid.

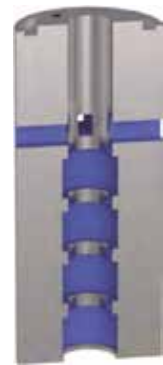
The flow channel is not of right angle turning, thus the velocity control is not as good as labyrinth cage valve. Therefore this valve is recommended when only particles contained in the flow.



GC400 Parts List



Multi-step Plug



Multi-step Cage

Specifications

Body Styles	GC400: Globe Valve		AC400: Angle Valve
Body Size	1"~32"	1"~24"	1"~18"
Body Rating	ANSI 150#~600	ANSI 900#~1500#	ANSI 2500#
Connections	Flanges, Butt Weld, Socket Weld, Integral Flanges, etc...		
Fluid Temperature	-196~+565°C		
Body Material	WCB/A105, WC6/F11, WC9/F22, LCB/LF2, CF8/F304, CF8M/F316, CF3/F304L, CF3M/F316L, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Trim Material	A182-F6a, A182-F316, A564-630, F11/Stellited, Duplex, Monel, Hastelloy, Inconel, Titanium, etc...		
Flow Characteristics	Linear, Modified Linear		
Rangeability	30:1~50:1		
Seat Leakage	Metal Seat	ANSI Class IV, V or MSS-SP-61	
	Soft Seat	ANSI Class VI	
Actuator Combination	D100LA: Multi-spring Pneumatic Diaphragm Actuator P100LA: Pneumatic Piston Cylinder Actuator		

Control Valves Range

Type	Valve Name	Pressure Rating	Valve Size
Globe Valve			
GS100	Top Guided Single Seat Globe Valves	ANSI 150#~600#	1/2"~8"
		ANSI 900#~2500#	1"~2"
GS200	Small Flow Single Seat Globe Valves	ANSI 150#~2500#	1/2"~1"
GC100	Cage Guided Globe Valves	ANSI 150#~600# ANSI 900#~1500# ANSI 2500#	1"~24"
GC200	Multi-hole Cage Guided Globe Valves		1"~18"
GC300	Labyrinth Cage Guided Globe Vaves		1"~16"
GC400	Multi-step Plug Cage Guided Globe Valves		
GT100	3-Way Diverting Globe Valves	ANSI 150#~2500#	1"~24"
GT200	3-Way Mixing Globe Valves		
AS100	Top Guided Single Seat Angle Valves	ANSI 150#~ANSI 2500#	1"~16"
AC100	Cage Guided Angle Valves	ANSI 150#~ANSI 2500#	1"~16"
AC200	Multi-hole Cage Guided Angle Valves	ANSI 150#~ANSI 2500#	1"~16"
AC300	Labyrinth Cage Guided Angle Vaves	ANSI 150#~ANSI 2500#	1"~16"
AC400	Multi-step Plug Cage Guided Angle Valves	ANSI 150#~ANSI 2500#	1"~16"
Ball Valve			
BE100	Eccentric Rotating Plug Valves (Wafer)	ANSI 150#~600#	1"~12"
		ANSI 150#~300#	1"~18"
BE120	Eccentric Rotating Plug Valves (Flanged)	ANSI 150#~600#	1"~12"
		ANSI 150#~300#	1"~18"
BS100	Straight Through Ball Valves (Floating)	ANSI 150#	1/2"~8"
		ANSI 300#	1/2"~6"
BS100	Straight Through Ball Valves (Floating)	ANSI 600#	1/2"~4"
BS200	Straight Through Ball Valves (Trunnion)	ANSI 150#~600#	2"~24"
BM100	Metal Seated Ball Valves (Floating)	ANSI 150#~600#	1/2"~4"
BM200	Metal Seated Ball Valves (Trunnion)	ANSI 150#~600#	2"~24"
Parallel Slide Gate Valve			
PG100	Parallel Slide Gate Valves	ANSI 150#~600#	1-1/2"~32"
Butterfly Valve			
BT200	Double Offset Butterfly Valves (Wafer)	ANSI 150#	3"~60"
BT300	Triple Offset Butterfly Valves (Wafer)	ANSI 150#~300#	3"~60"
		ANSI 600#	3"~36"
BT320	Triple Offset Butterfly Valves (Double Flange)	ANSI 900#	3"~24"
		ANSI 1500#~2500#	4"~18"
BT600	Light Duty Damper Type Butterfly Valves	ANSI 125#, GB/HG PN0.25~1.0	3"~128"

Actuator Ranges

Type	Actuator Name	Motion Type	Actuator Size
D100LA	Multi Spring Pneumatic Diaphragm	Linear	220、270、350、450、550、650
P100LA	Pneumatic Double Action Cylinder	Linear	300、450、600
D100RA	Multi Spring Pneumatic Diaphragm	Rotary	220、270、350、450、550、650
P200RA	Pneumatic Cylinder (Rack & Pinion)	Rotary	60、80、90...235、300、340



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