

ellows Valve

Compact and Light-weight Bellows Seal Valve (1 MPa)

GCV series



IHARA SCIENCE CORPORATION

GCV Bellows Seal Globe Valve (1 MPa)

[Features]

GCV Series Bellows Seal Globe Valve is a light and compact bellows valve with excellent cost effectiveness, developed to contribute to the energy conservation and resource conservation, which is becoming a major assignment in recent days. With the basic performance equal to the conventional CVL series, it was made compact by reviewing each part. The switching indicator was also modified, making it easier to check if the valve is opened or closed.

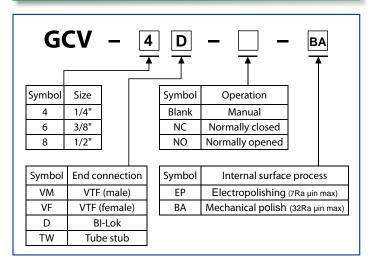
- High sealing performance and durability are realized by equipping with a metallic bellows seal
- Equipped with a switching indicator making it possible to check if the valve is opened or closed with a glance
- No impurities by precision cleaning of the parts contacting the fluid
- Assembly and packaging in the clean room

Specification

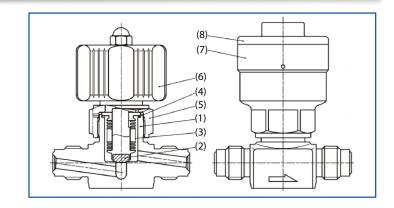
Nominal size	1/4"	3/8"	1/2"		
Operating pressure	Vac. to 1 MPa (150 psi)				
Operating temperature	-10 to +80 °C (14 to 176°F)				
Cv value (*1)	0.35 0.85				
	VTF (Metal gasket sealing type)				
End connections (*2)	BI-Lok (Double ferrule type)				
	Tube stub				

- (*1) In case of VTF (male) connection.
- (*2) Other connections are available as options.
- (*3) PVDF, Polyimide, PEEK, PFA seats available as options.

Parts Number Structure



	Parts name	Material		
(1)	Body	316L SS		
(2)	Disc Seat	PCTFE		
(3)	Bellows	316L SS		
(4)	Gasket Seal	316L SS (PFA coating)		
(5)	Bonnet	304 SS		
(6)	Handle	ADC12		
(7)	Bonnet	304 SS		
(8)	Cover	A5056		

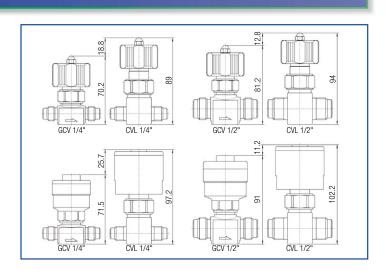


Comparison with the Conventional Model

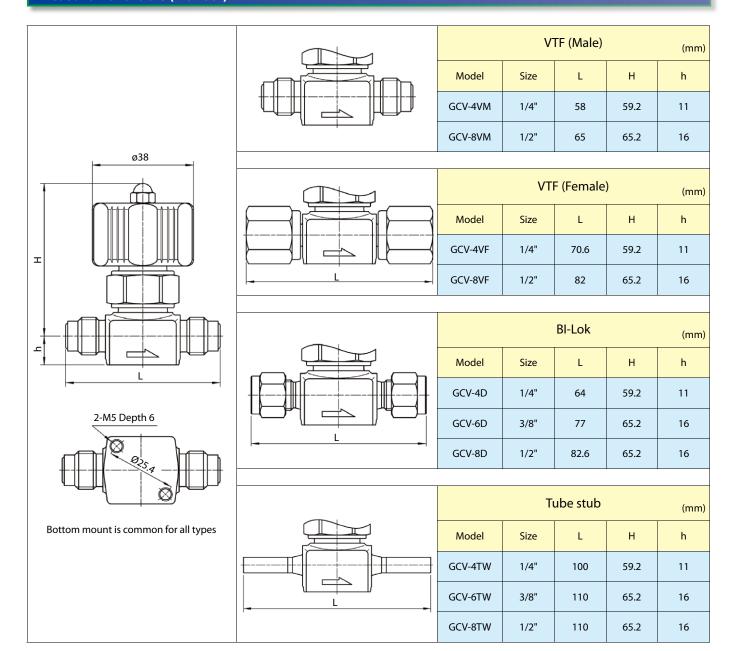
Manual		New model GCV	CVL	Difference	
0 111 : 14	1/4"	70.2 mm	89 mm	-18.8 mm	
Overall height	1/2"	81.2 mm	94 mm	-12.8 mm	
Weight	1/4"	220 g	290 g	-70 g	
	1/2"	320 g	380 g	-60 g	

Automatic		New model GCV	CVL	Difference	
Overall height	1/4"	71.5 mm	97.2 mm	-25.7 mm	
Overall neight	1/2"	91 mm	102.2 mm	-11.2 mm	
Weight	1/4"	270 g	420 g	-150 g	
weight	1/2"	430 g	510 g	-80 g	

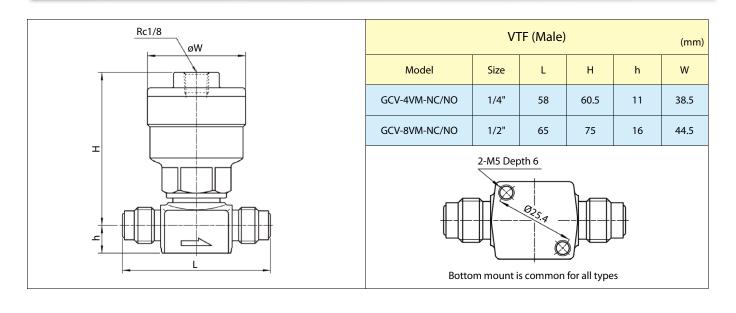
(Weight is for the VTF male connection)



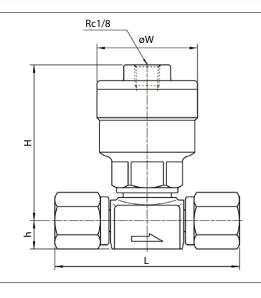
Measurement Table (Manual)



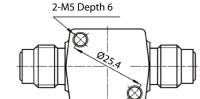
Measurement Table (Pneumatic actuation)



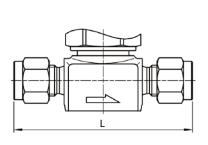
Measurement Table (Pneumatic actuation)



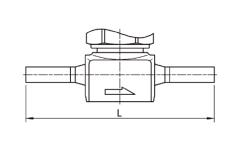
VTF (Female) (n					
Model	Size	L	Н	h	W
GCV-4VF-NC/NO	1/4"	70.6	60.5	11	38.5
GCV-8VF-NC/NO	1/2"	82	75	16	44.5



Bottom mount is common for all types



BI-Lok					
Model	Size	L	Н	h	W
GCV-4D-NC/NO	1/4"	64	60.5	11	38.5
GCV-6D-NC/NO	3/8"	77	75	16	44.5
GCV-8D-NC/NO	1/2"	82.6	75	16	44.5



Tube stub						
Model	Size	L	Н	h	W	
GCV-4TW-NC/NO	1/4"	100	60.5	11	38.5	
GCV-TWD-NC/NO	3/8"	110	75	16	44.5	
GCV-8TW-NC/NO	1/2"	110	75	16	44.5	

ISO9001 / ISO14001 Certified Office Certified office for high-pressure gas facility testing and manufacturing, certified office for N valves and N-II fittings TÜV Rheinland Japan Ltd. Certified Plant



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CAUTION: Improper selection or handling of fittings, valves or related accessories may cause damage to operators or systems. Select appropriate fittings, valves or related accessories after careful consideration of the compatibility with the system being used and the operating conditions

based on judgments made regarding the responsibility

and limitations of both the system architects and the users.

Furthermore, make sure to perform proper installation,

operation, and maintenance. Read the instruction manual carefully before use, and fully understand the contents. If you do not have the instruction manual or if you have any

questions, please contact your nearest sales office.

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