

ellows Valve

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

GCV series



IHARA SCIENCE CORPORATION

GCV Bellows Seal Glove Valve (1 MPa)

[Features]

GCV Series Bellows Seal Glove 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				
Operating temperature	-10 to +80 °C				
Cv value (*1)	0.35 0.85				
	VTF (Metal gasket sealing ty				
End connections (*2)	BI-Lok	le type)			

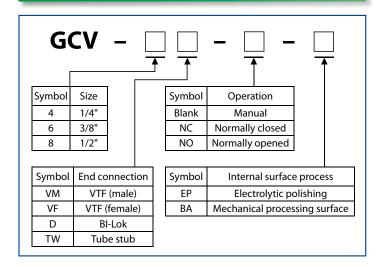
(*1)

In case of VTF (male) connection. It will be different depending on the connection and/or the size.

(*2)

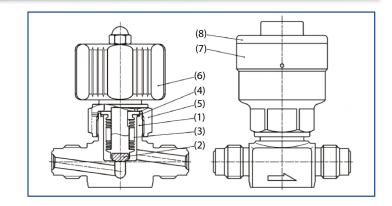
Other connections are available as options. Please contact our Sales Department.

Parts Number Structure



Primary Materials

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

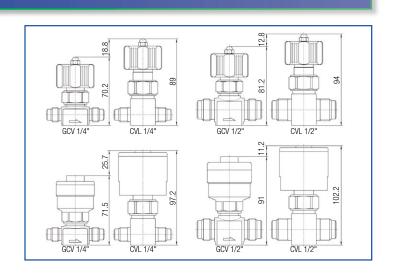


Comparison with the Conventional Model

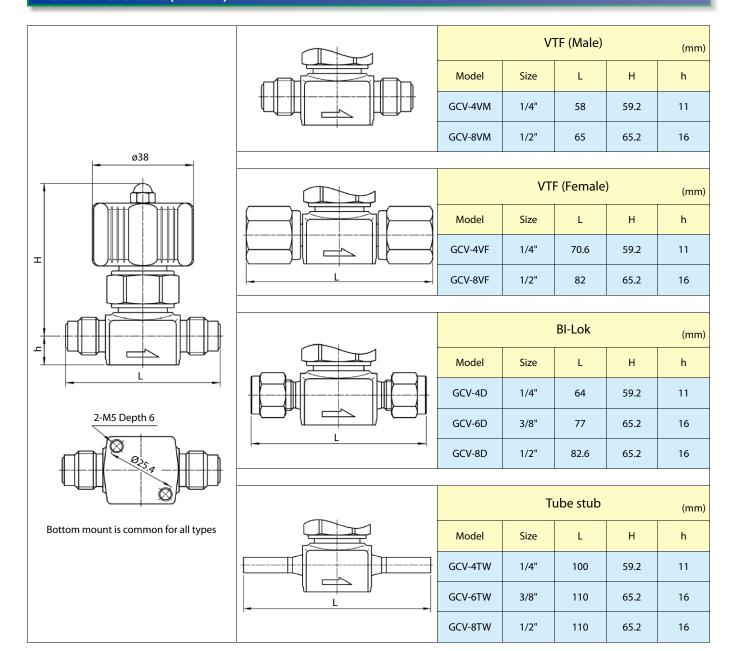
Manual		New model GCV	CVL	Difference	
0	1/4"	70.2 mm	89 mm	-18.8 mm	
Overall height	1/2"	81.2 mm	94 mm	-12.8 mm	
Weight	1/4"	220 g	290 g	-70 g	
weight	1/2"	320 g	380 g	-60 g	

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

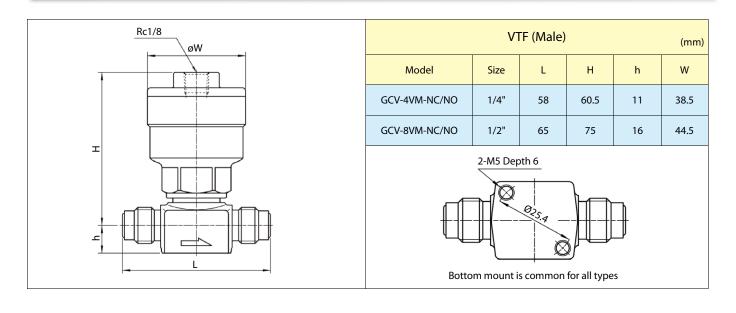
(Weight is for the VTF male connection)



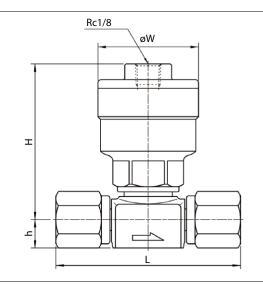
Measurement Table (Manual)



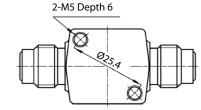
Measurement Table (Pneumatic actuation)



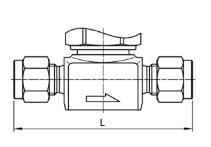
Measurement Table (Pneumatic actuation)



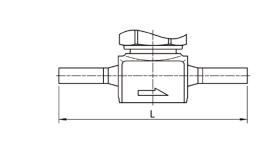
VTF (Female)					
Model	Size	L	Н	h	W
GCV-4VF-NC/NO	1/4"	70.6	60.5	11	38.5
GCV-8VF-NC/NO	1/2"	82	75	16	44.5



Bottom mount is common for all types



Bl-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 (mm)						
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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