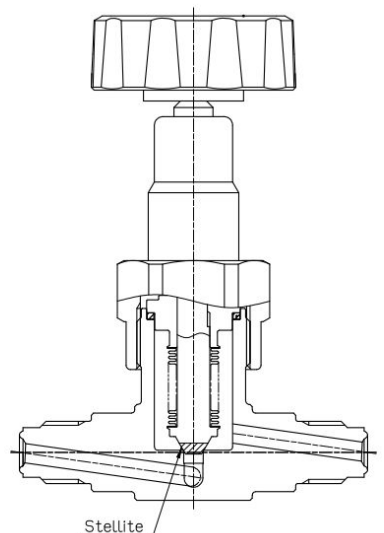


Cleanness by Purpose

Bel lows Valve

*Robust Ultra-High Purity
Bellows Seal Valve (~3 MPa)*

CVM series



IHARA SCIENCE CORPORATION

CVM Bellows Seal Globe Valve (~ 3 MPa)

[Features]

CVM Series Bellows Seal Globe Valve is a robust bellows valve with realized high flow rate by expanding the flow passage to the maximum extent. Our valve offers exceptional cleanliness and excellent flows for gas distribution systems. Also superior containment and delivery for the most critical gas applications. Manual and automatic operations available; pneumatic Norm-Open and Norm-Closed.

- Engineered with less dead space around wetted surfaces, providing excellent gas purging ability.
- Proven performance 316LSS bellows which achieves high cleanliness and high durability for actuation longevity.
- Equipped with open/close indicator allowing visual check of the valve position.
- Oil-free treatment by precision cleaning for all wetted parts & detailed electropolishing procedure for outstanding finish.
- Assembled, tested and packaged in ISO5 (class 100) cleanroom, double-bagged with UHP Nitrogen purge.

Specification

Nominal size	1/4"	3/8"	1/2"
Operating pressure	Vac. to 3 MPa (450 PSI)		
Operating temperature	-10 to +80 °C (14 to 176°F)		
Cv value (*1)	0.30	0.70	
End connections (*2)	VTF (Metal gasket sealing type)		
	BI-Lok (Double ferrule type)		
	Tube stub		

(*1) In case of VTF (male) connection.

(*2) Other connections available as options.

(standard) PCTFE seat

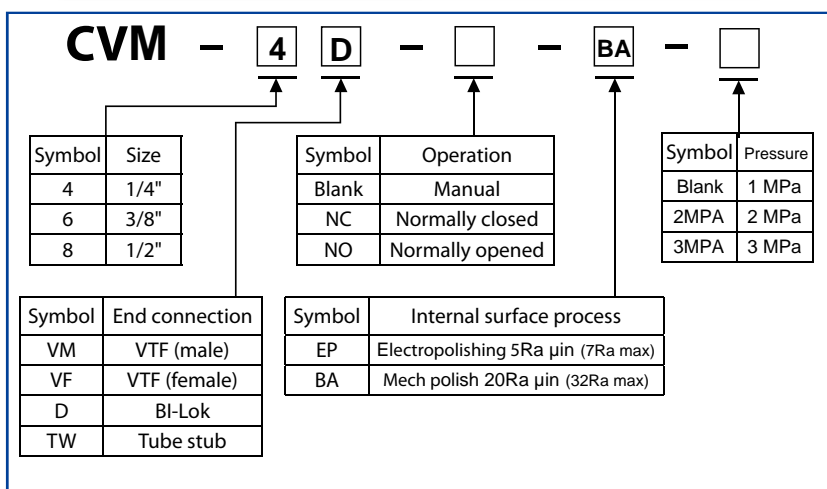
(optional) PVDF, Polyimide, PEEK, PFA seats

(!) part denoted as special SUFFIX "PVDF"

(optional) Stellite metal seat

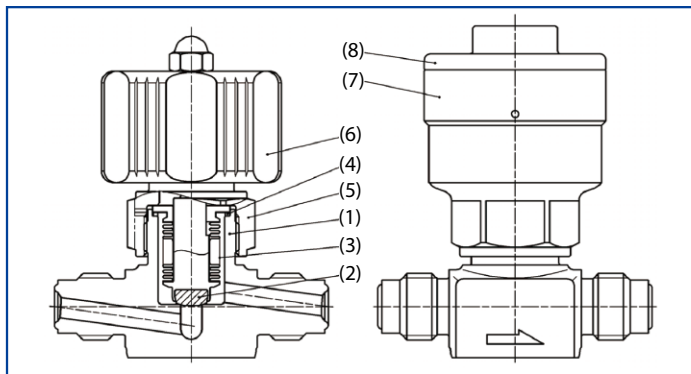
(!) part denoted as special SUFFIX of drawing number > i.e. "15489"

Parts Number Structure

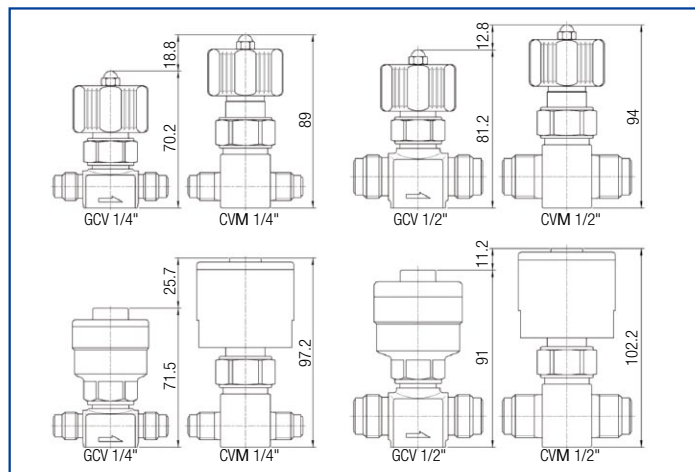


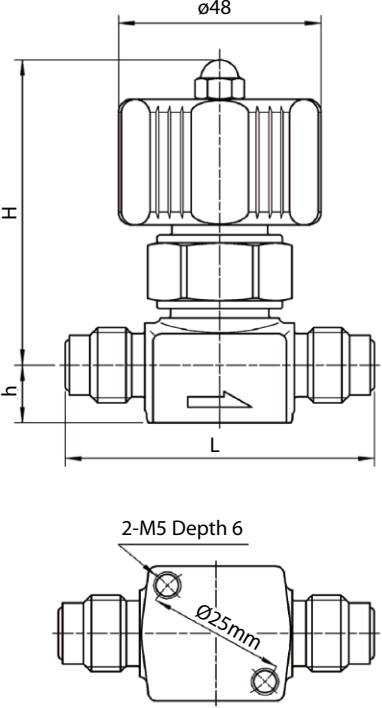
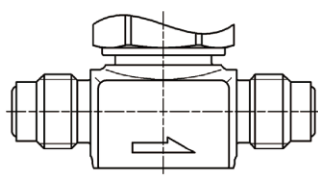
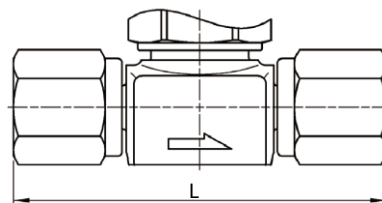
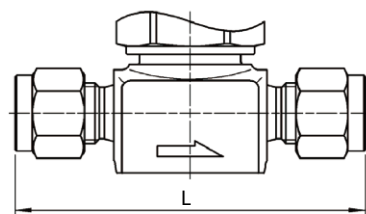
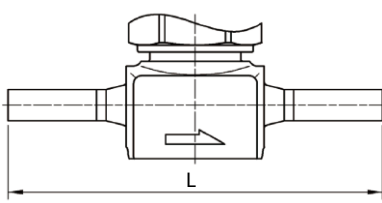
Primary Materials

	Parts name	Material
(1)	Body	316L SS
(2)	Disc Seat	PCTFE or Stellite
(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 GCV Compact Model



 <p>Bottom mount is common for all types</p>		VTF (Male) (mm)				
		Model	Size	L	H	h
		CVM-4VM	1/4"	75	111	11
		CVM-8VM	1/2"	80	116	16
		VTF (Female) (mm)				
		Model	Size	L	H	h
		CVM-4VF	1/4"	87	111	11
		CVM-8VF	1/2"	99	116	16
		BI-Lok (mm)				
		Model	Size	L	H	h
		CVM-4D	1/4"	81	111	11
		CVM-6D	3/8"	89	116	16
		CVM-8D	1/2"	99.6	116	16
		Tube stub (mm)				
		Model	Size	L	H	h
		CVM-4TW	1/4"	99.4	111	11
		CVM-6TW	3/8"	101.6	116	16
		CVM-8TW	1/2"	101.6	116	16

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.