

U L T R A C L E A N D I A P H R A G M V A L V E S

UCV HMB[®]

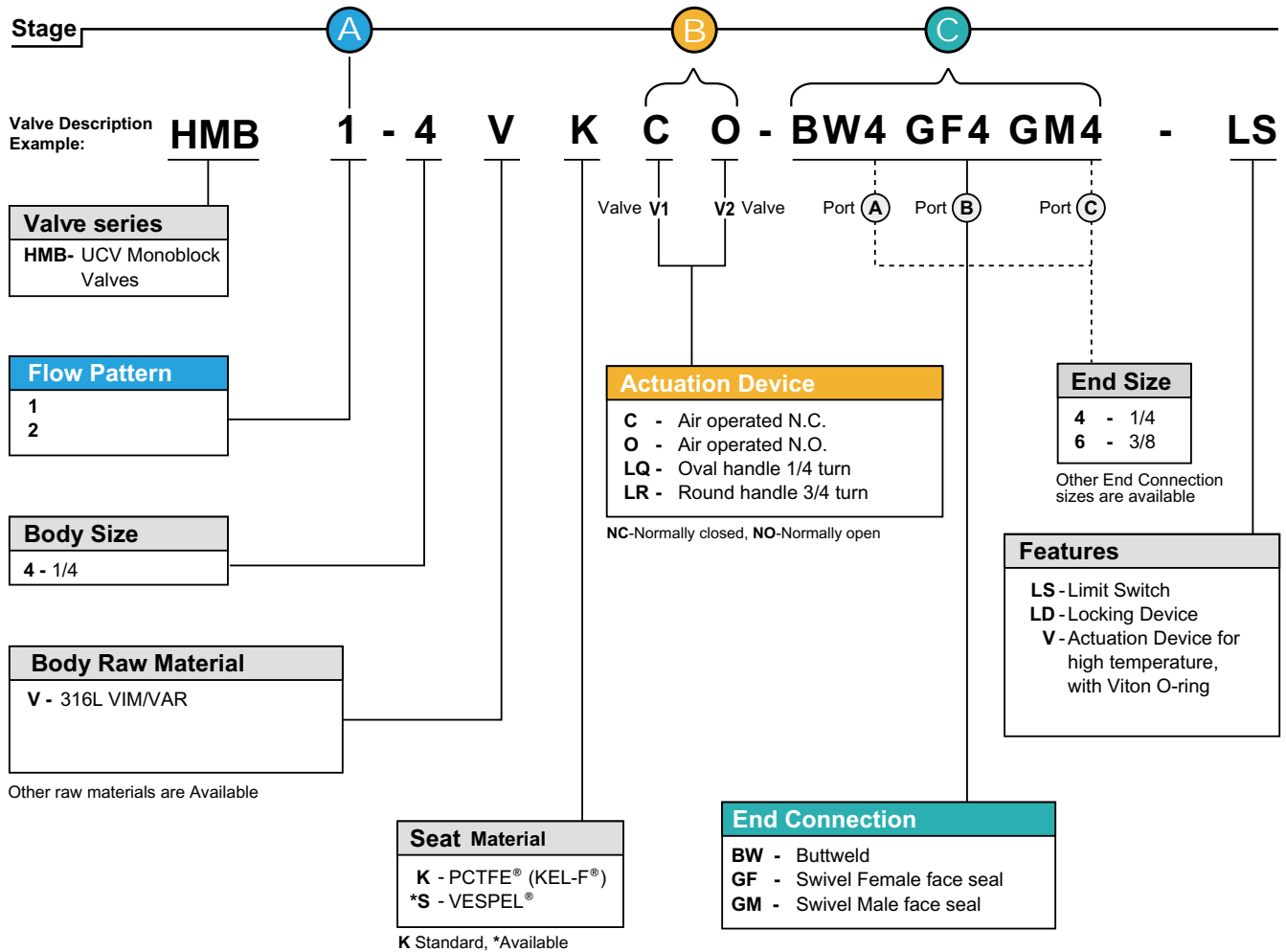
SERIES

MONOBLOCK VALVES



ORDERING INFORMATION FOR MONOBLOCK VALVE

Your Safety is important to us, please ensure proper reference to our latest catalogue.



Ordering Examples

	HMB1 - 4VKCO - BW4GF4GM4 - LS		HMB2 - 4VSLQLQ - GF4* - V	
Flow Pattern - stage A	1	Flow Pattern - 1	2	Flow Pattern - 2
Body size	4	1/4"	4	1/4"
Body material	V	316L VIM/VAR	V	316L VIM/VAR
Seat material	K	PCTFE [®]	S	VESPEL [®]
Actuation device -stage B	C O	Valve V1 - Air Operated, Normally Closed Valve V2 -Air Operated, Normally Open	LQ LQ	Valve V1 - Oval handle 1/4 turn Valve V2 - Oval handle 1/4 turn
End connection - stage C	BW GF GM	Port A Buttweld Port B Swivel Female face seal Port C Swivel Male face seal	GF GF GF	Port A Swivel Female face seal Port B Swivel Female face seal Port C Swivel Female face seal
End size	4	1/4"	4	1/4"
Features	LS	Limit switch	V	Actuation Device for high temperature, with Viton O-ring

* If the end connections are the same, use the end connection description only once.

Three stages for ordering MONOBLOCK Valves **A** **B** **C**

Stage A Flow Pattern

	Schematic Flow Path	Schematic Flow Chart	Flow Direction
HMB1			
HMB2			

The V1, V2 are the inside valves
The (A) (B) (C) are valves port sides

IN - defined as a port connected to the region below the valve seat.
OUT - defined as a port connected to the region above the valve seat.

Stage B Actuation Device*

Actuation Type	Actuation Mode	Description	Actuation Type	Actuation Mode	Description
Pneumatic	C	Air Operated Normally closed 	Manual	LQ	Oval Handle 1/4 turn
	O	Air Operated Normally Open 		LR	Round handle 3/4 turn

*The Actuation device definition, referring to valves V1 and V2 respectively.

Stage C End Connections and Dimensions

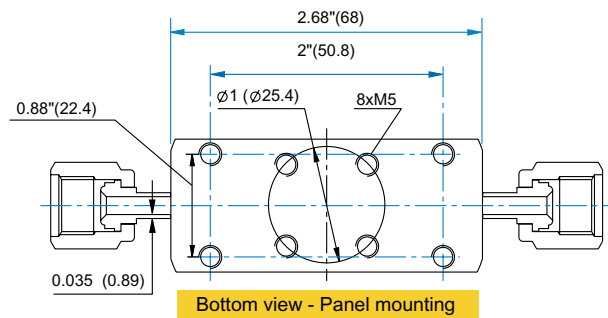
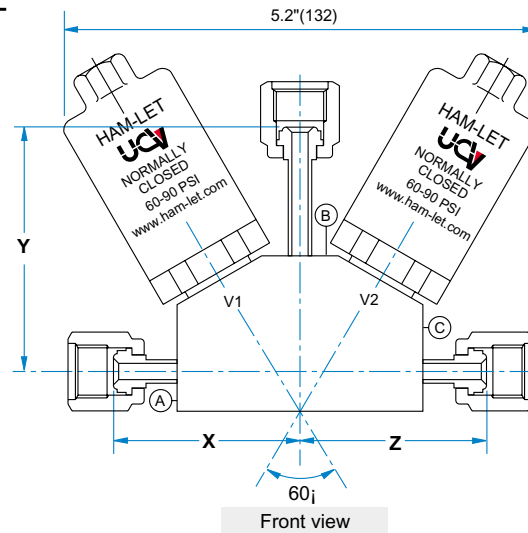
Connection Type	Size	End Connection	X		Y		Z	
			inch	mm	inch	mm	inch	mm
Buttweld	1/4	BW4	1.81	46.0	2.79	70.9	1.81	46.0
Swivel Female face seal	1/4	GF4	2.03	51.6	2.66	67.6	2.03	51.6
Swivel Male face seal	1/4	GM4	2.39	60.7	3.35	85.1	2.39	60.7

Dimensions are for standard monoblock valves.

For special customer dimensions, please consult Ham-Let

Dimensions are for reference only, and are subject to change.

Dimensions are in inch, Dimensions that are in () are in millimeters .



Panel mounting - Standard

Standard, eight threaded holes

The M5 threaded mounting holes will accept 10-32 screws

Select the right component for safety's sake

The total design of the system must be taken into consideration when selecting components in order to ensure that your Ham-Let products provide safe, trouble-free operation. It is the responsibility of the system designer and the user to consider the compatibility of the materials, of the components and system, the function of the component, appropriate rating, and to insure proper installation, operation and maintenance.

UCV HM Specifications

Structure	Direct seal metal diaphragm valve without seal packing, manually and pneumatically operated
Item pressure	Vacuum to 300 PSI (20 bar)
Operating Temperature:	
Standard	14 to 140 _i F, -10 to 60 _i C (PCTFE Seat)
Available	14 to 302 _i F, -10 to 150 _i C *(Vespel Seat)
Leakage:	
Inboard Leakage	† 1x10 ⁻⁹ atm cc He/sec
Outboard Leakage	† 1x10 ⁻⁹ atm cc He/sec
Across the seat Leakage	† 1x10 ⁻⁹ atm cc He/sec
Particle	No particle detected above 0.1 m.
Connections	Face seal or tube weld
Cv value	0.3
Surface finish Ra (Ave)-Standard	5 in
Actuator air supply (Pneumatic)	60 to 90 psig (4 to 6 bar)
Air Connection (Pneumatic)	1/8 NPT

* Used with Viton O-ring for actuation Device

Materials of Construction - Wetted Parts

Item	PART No.	MATERIAL
1	Body	Stainless steel, 316L Vim/Var
2	Seat holder	Stainless steel, 316L Vim/Var
3	Seat	PCTFE [□] , *Vespel [□]
4	Diaphragm	Ni-Co Alloy

*Optional

