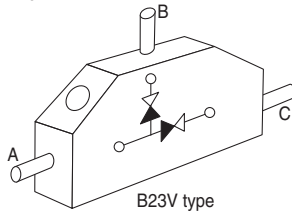


Mono Block Valves

Block-type

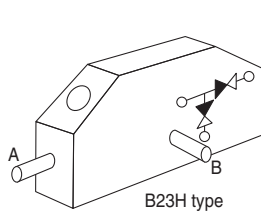
Flow Direction

A flow

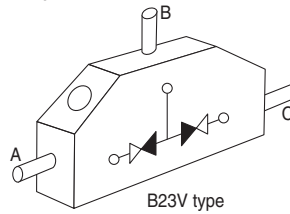


B23V type

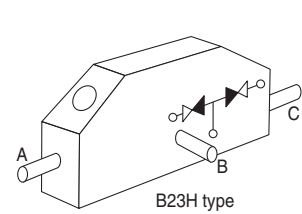
B flow



B23H type



B23V type



B23H type

Features

- Excellent degassing characteristics is achieved through minimized flow paths by combining 2 of the KD, KCD, or RD valves together in one valve body.
- The basic performance is inherited from the performance of the base valves, and an extremely compact panel design can be achieved by combining the actuators of choice in one valve body.
- The optimal flow layout can be made through selection of various flow systems, pipe routing, and fittings.
- A series of three or more actuator block valves can also be produced for special applications.

Specifications

Size	KD2 (1/8")	KD4 (1/4")	KD8 (1/2")
Cv	0.04	0.22	0.7
Wetted Area Volume	0.034in ³ (0.56cm ³)	0.195in ³ (3.2cm ³)	1.208in ³ (19.8cm ³)

Other specifications and product grades conform to the valves on which the series is based.

Precautions

- ① The valves are designed to be used under atmospheric pressure. Usage such as under vacuum vessels are not guaranteed.
- ② For high temperature applications, please select appropriate material for air-fittings and tubes to assure proper performance.



Product Code Table

Block valve	Number of valves	Number of ports	Port direction	Model	Size	V1	V2	Connection method	Seat material	Handle type	Handle color	Flow	Port direction	Grade + Body material
B	2	3	H	KD	4	M	Q	VF	C			A	L	EP-316L

V: Vertical
 H: Horizontal
 *1
 KD: KD-type diaphragm valve
 KCD: KCD-type diaphragm valve
 RD: High-pressure diaphragm valve
 2: 1/8"
 4: 1/4"
 8: 1/2"
 *2
 M: Manual
 Q: 90° manual
 V: CVC male
 VF: CVC female
 W: Butt weld
 *3
 C: PCTFE
 A: PFA
 P: PI
 Not shown:
 Standard
 POC: Push-lock type
 Not shown:
 Blue (standard)
 BK: Black
 GR: Green
 RD: Red
 SL: Silver
 WH: White
 YE: Yellow
 A: A flow
 B: B flow
 *1
 Not shown:
 Standard
 L: Reversed
 STD-316L: Mechanical Polished + SUS316L
 EP-316L: Electro Polished + SUS316L
 SEP-316LE: Electro Polished + SUS316LE

*1 For the port direction and flow, please refer to the Flow direction noted above.

*2 In the case where the types of fittings differ, please note them in the above order of Flow direction Ports A, B, and C.

*3 In the case where the types of fittings differ, please note them in the above order of Flow direction Ports A, B, and C.
 Example) For the case of Port A = CVC female, Port B = CVC female, Port C = CVC male, the model will be "VFVFV."

Dimensions

Unit: inch (mm)

Model	Type	Connection	L	H	H ₁	A	A ₁	B	T ₁	C	W	T	M ₁
	B23VK-D2M-VFC	1/8" CVC Female	3.50 (89.0)	2.05 (52.0)	0.28 (7.0)	0.94 (24.0)	3.54 (90.0)	2.05 (52.0)	0.83 (21.0)	1.79 (45.5)	1.34 (34.0)	0.47 (12.0)	2-M5 Depth 0.20 (5.0)
	B23VK-D4M-VFC	1/4" CVC Female	4.24 (107.6)	2.83 (72.0)	0.43 (11.0)	1.65 (42.0)	4.80 (122.0)	2.52 (64.0)	1.02 (26.0)	2.12 (53.8)	1.57 (40.0)	0.59 (15.0)	4-M5 Depth 0.20 (5.0)
	B23VK-D8M-VFC	1/2" CVC Female	5.63 (143.0)	3.43 (87.0)	0.63 (16.0)	1.65 (42.0)	5.59 (142.0)	3.82 (97.0)	1.42 (36.0)	2.81 (71.5)	2.36 (60.0)	0.79 (20.0)	4-M5 Depth 0.20 (5.0)
	B23HK-D2M-VFC	1/8" CVC Female	3.50 (89.0)	2.05 (52.0)	0.28 (7.0)	0.94 (24.0)	3.54 (90.0)	2.05 (52.0)	0.83 (21.0)	1.14 (29.0)	1.34 (34.0)	0.47 (12.0)	2-M5 Depth 0.20 (5.0)
	B23HK-D4M-VFC	1/4" CVC Female	4.24 (107.6)	2.83 (72.0)	0.43 (11.0)	1.65 (42.0)	4.80 (122.0)	2.52 (64.0)	1.02 (26.0)	1.37 (34.8)	1.57 (40.0)	0.59 (15.0)	4-M5 Depth 0.20 (5.0)
	B23HK-D8M-VFC	1/2" CVC Female	5.63 (143.0)	3.43 (87.0)	0.63 (16.0)	1.65 (42.0)	5.59 (142.0)	3.82 (97.0)	1.42 (36.0)	1.61 (41.0)	2.36 (60.0)	0.79 (20.0)	4-M5 Depth 0.20 (5.0)