

Flow Modulating Valve (FMV-IA Series)



Application:

- IDMC Flow modulating valves are used in sanitary pipeline in dairy, food, beverages and pharmaceutical industry.
- It is generally used for liquid processing applications where precision control of flow rate is required.

Features:

- A low-cost and reliable product for continuous operation plants.
- Easy to operate and maintain.
- Designed for direct welding to sanitary piping system.
- Hygienic design suitable for Cleaning-In-Place (CIP).
- It can be remotely operated by compressed air.
- Valve can control the flow by two different methods:
 - A system comprising of Proportional Integral Derivative (PID) controller and Current to pressure (I/P) converter.
 - Positioner for standard 24 V DC operation or ASi field bus actuation.

Technical specifications:

- Sizes : SMS 38 to SMS 76 (from pipe OD 1.5" to 4" suitable for ASTM A270)
- Product wetted steel parts : SS 316 L or SS 304
- Other steel parts : SS 304
- Product contact gaskets/seals : EPDM (suitable to US FDA 21 CFR 177.2600)
- Actuator gasket/seals : NBR
- Average product pressure : 4 Bar
- Maximum product pressure : 10 Bar
- Temperature range : 2°C to 90°C
- Contact IDMC application engineering to select suitable model specific to your product flow control within required range.

Operation/working:

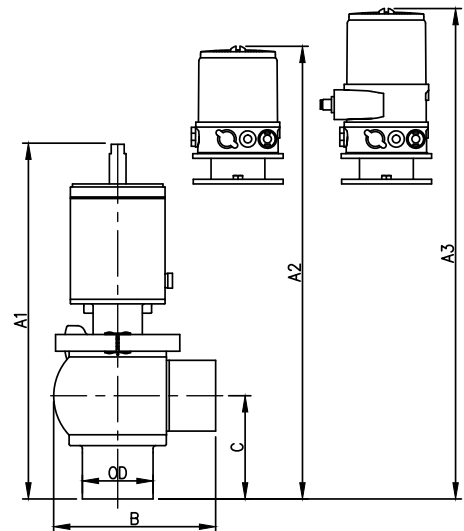
- The valve controls flow by changing the valve opening area. Flow is monitored by flow meter and signal from flow meter is transmitted to a PID system that sends signal to i/p converter or positioner to control pneumatic pressure in the actuator. Valve opening is controlled by applying counter pneumatic pressure in the actuator against fluid pressure from bottom of the valve. The valve is available in normally open configuration.

Standard dimensions:

Valve sizes	Dimensions in mm					
	OD	A1	A2*	A3*	B	C
SMS 38	38.1	301	406.7	447.3	94.3	62
SMS 51	50.8	321.5	427.2	467.8	125.1	70.8
SMS 63	63.5	373	478.7	519.3	168.9	109.2
SMS 76	76.2	382	487.7	528.3	174.5	111.3

Note:

- * Dimensions "A2" are with Positioner (model no.8694-without digital display)
- * Dimensions "A3" are with Positioner (model no.8693-with digital display)



124-128, GIDC Estate, Vithal Udyognagar 388 121, Anand district, Gujarat, India, Ph: +91-2692-236375, 220100
idmc@idmc.com www.idmc.com Toll free:1800-103-3567
Gurugram: +91-124-4931370, Lucknow:+91-9451970174, Patna: +91-9934360635

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