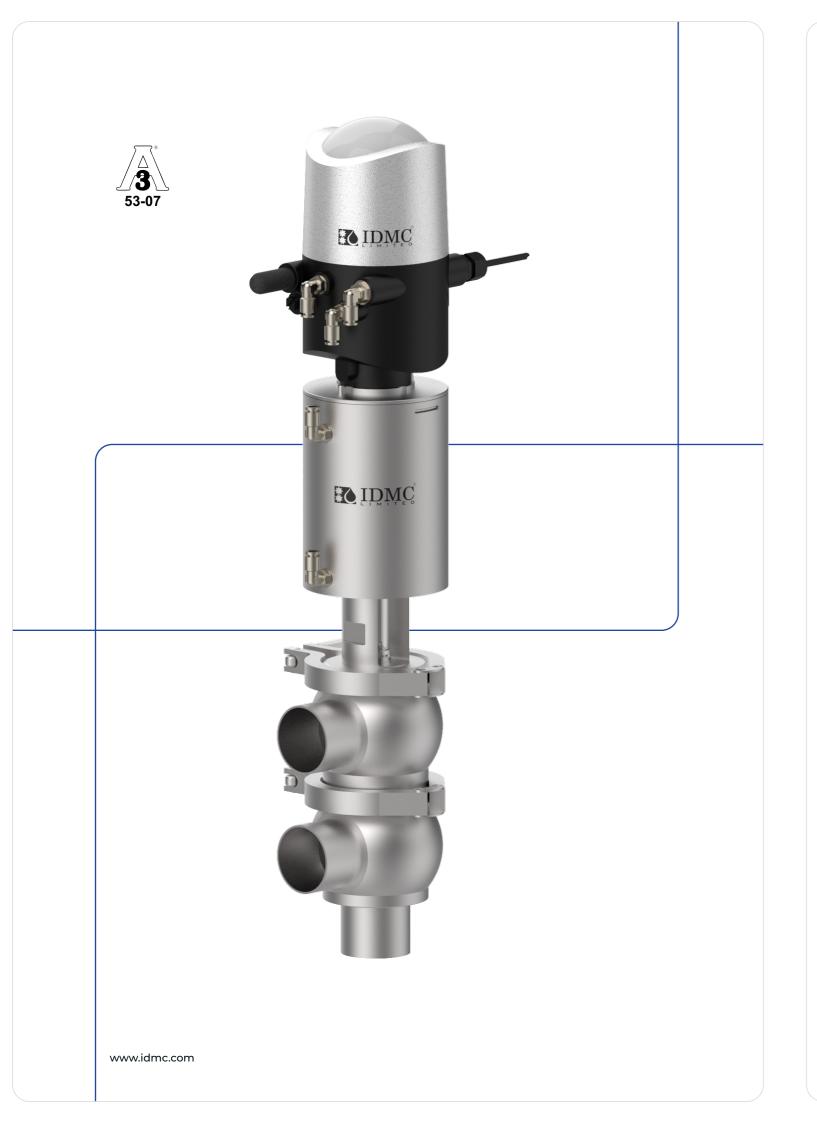




+91-2692-220521 | 236375 | Toll free:1800 103 3567





# **Pneumatic Seat Valve**

IDMC Pneumatic Seat Valves are designed for versatility and reliability in hygienic applications across dairy, food, beverage, brewery, and pharma industries, showcasing their adaptability across diverse industrial processes.

These valves cater to applications with stringent hygiene requirements. With a compact and modular design, ensure easy integration and maintenance. The moving parts enhance reliability and a range of optional features allow customization to specific process requirements, contributing to their widespread applicability and low total cost of ownership.

The valves boast exceptional hygiene and durability features, including superior cleanability with a smooth inner valve body, extended seal life through defined seal compression, enhanced product safety with static seal leak detection and protection against full vacuum.

#### **Inherent Features**

Designed for gentle fluid flow with minimum pressure drop across the valve

The control unit has 360° view of three LEDs indicating the operating / error state of the valve

Control unit with the option of "Hard Wired" or "ASi" communication

Available in Normally Open (NO) and Normally Closed (NC) configuration

Valve body combination: L, T, TT, LL, LT, TL with different orientation

The valve body is machined from solid bar stock

No special tools needed for maintenance

Designed as per EHEDG guidelines

### Material and options

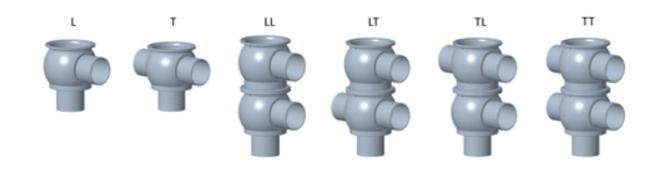
Product wetted steel parts (MoC)	1.4404 (AISI 316L stainless steel)
Wetted parts surface finish	Ra < 0.8 µm (Standard) / EP (Option)
Other parts	1.4301 (AISI 304 stainless steel)
Product wetted elastomers	EPDM (Standard) / NBR & FPM (Options)
Product wetted elastomers confirm to	US FDA 21 CFR 177.2600
Other elastomers	NBR/PTFE

# **Operating Data**

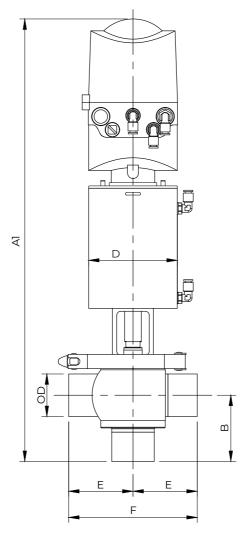
#### Pressure and temperature

Maximum product pressure	up to 1000 kPa (10 bar)
Minimum product pressure	Full vacuum
Air Pressure	500 to 700 kPa (5 to 7 bar)
Temperature range	-10 °C to +125 °C

### Available Valve Body Combinations



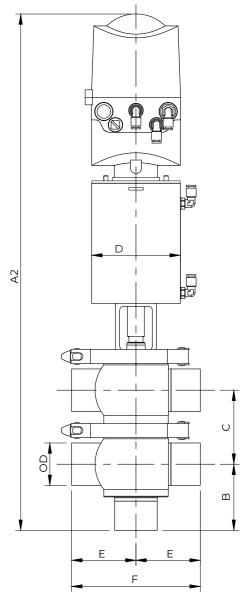
# **Standard Dimensions**



Shut-off Valve

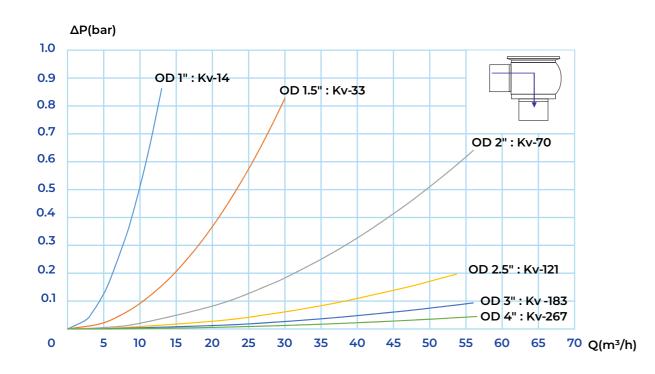
Valve	Dimensions in mm							
Sizes	OD	Al	A2	В	С	D	E	F
יין	25.4	491	548	61	58	106	62	124
1.5"	38.1	506	583	68	78	106	69	137
2"	50.8	529	618	79	89	106	77	154
2.5"	63.5	544	648	87	105	106	85	169
3"	76.2	615	735	100	120	131	89	179
4"	101.6	637	798	110	161	131	102	205

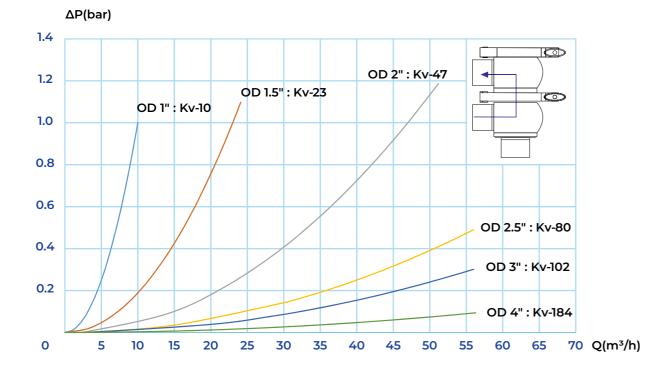
www.idmc.com



Flow Divert Valve



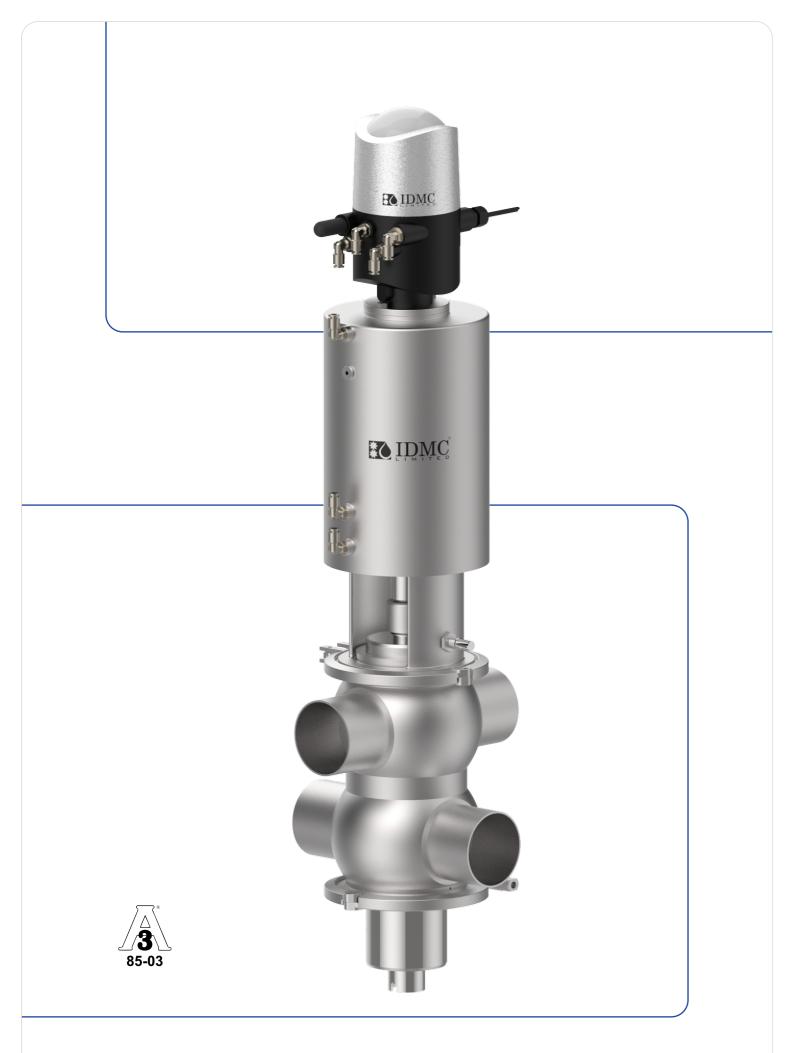




Note : Diagrams mentioned considering water as media

www.idmc.com





# **Mixproof Valve**

Reliable and robust, IDMC Mixproof Valves are most suitable to handle the concurrent flow of two distinct products or fluids in dairy, food, beverages, brewery and pharmaceutical applications, within a single valve at vital pipeline junctions, without the risk of cross-contamination.

The unique design of Mixproof valves comes with balanced plugs to take care of pressure surges during operation. Cleaning of the upper and lower seats of IDMC Mixproof Valves is ensured since the feedback of this operation is available for real-time monitoring.

Leakage detection hole facilitates visual inspection without the need for valve disassembly, offering immediate notification of potential wear in components. The upper/lower seat cleaning movement is independent during the CIP of the respective line. The valve operation ensures spillage-free product switchover between two lines. Leakage of product during seal failure is detected instantly through the leakage chamber.

#### **Inherent Features**

Designed for gentle fluid flow with n valve

The control unit has 360° view of three state of the valve

Control unit with the option of "Hard W

Built-in contactless seat position r control

Valve body combination: TT, LL, LT, TL w

Valve body machined from solid bar sto

No special tools needed for maintenan

Designed as per EHEDG guidelines

www.idmc.com

minimum pressure drop across the
LEDs indicating the operating / error
/ired" or "ASi" communication
neasurement for precise position
vith various orientation
ock
ice

### Material and options

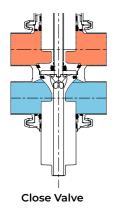
Product wetted steel parts (MoC)	1.4404 (AISI 316L stainless steel)
Wetted parts surface finish	Ra < 0.8 µm (Standard) / EP (Option)
Other parts	1.4301 (AISI 304 stainless steel)
Product wetted elastomers	EPDM (Standard) / NBR & FPM (Options)
Product wetted elastomers confirm to	US FDA 21 CFR 177.2600
Other elastomers	NBR/PTFE

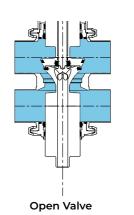
# **Operating Data**

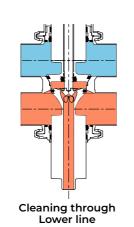
### Pressure and temperature

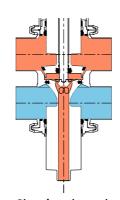
Maximum product pressure	up to 1000 kPa (10 bar)
Minimum product pressure	Full vacuum
Air Pressure	500 to 700 kPa (5 to 7 bar)
Temperature range	-10 °C to +125 °C

# Valve Operation





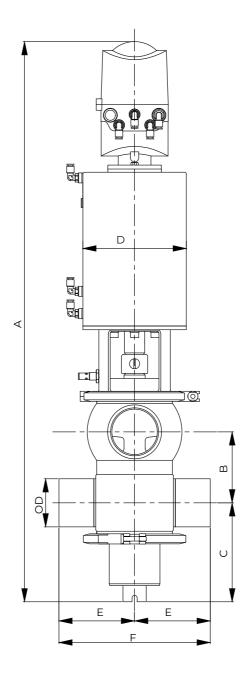




Cleaning through Upper line



## **Standard Dimensions**



Valve	Dimensions in mm								
Sizes	OD	Α	В	С	D	Е	F		
1.5"	38.1	699	62	103	124	120	240		
2"	50.8	699	75	97	124	120	240		
2.5"	63.5	888	100	163	164	120	240		
3"	76.2	888	113	157	164	120	240		
4"	101.6	926	137	149	164	120	240		



### Available Valve Body Combinations







LL-180

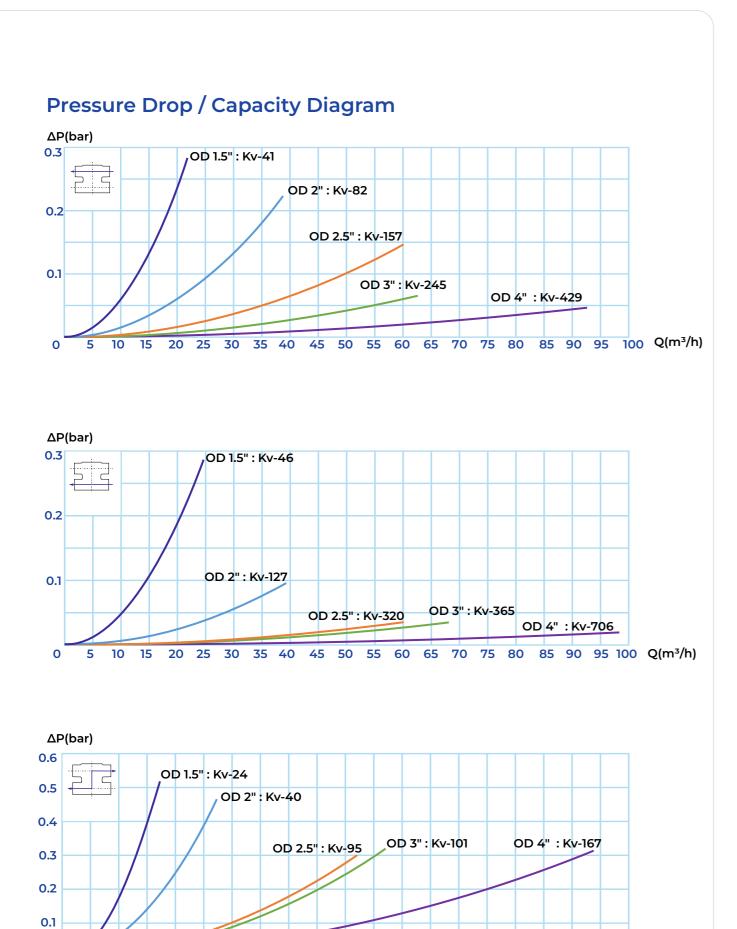




LL-270

TL

LL-90



5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 Q(m<sup>3</sup>/h)

IDMC IDMC

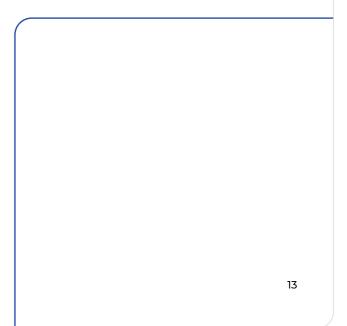
Note : Diagrams mentioned considering water as media

www.idmc.com

0









# **Butterfly Valve**

IDMC Butterfly Valves, function as stop valves. The valve is available with a pneumatic actuator for automated use or with a standard handle for manual operation, which has a locking facility for open or closed positions and hence stand out for their robustness and reliability. Their spaceefficient design renders them ideal for a wide array of applications. With easy installation and servicing, these valves offer a flexible and userfriendly solution for diverse industries, including dairy, food, beverage, brewery and other food industries.

The valve construction offers a substantial opening area and low flow resistance. The pneumatic actuator converts axial piston motion into a 90° shaft rotation, ensuring proper valve seat closure.

The valve is also available in a flange version, with two flanges and two flange seal rings for easy removal of the valve body without dismantling piping setups.

#### **Inherent Features**

Designed for in-line fluid flow with minimum pressure drop across the valve

The control unit of the pneumatic Butterfly valve has 360° view of three LEDs indicating the operating / error state

Control unit with the option of "Hard Wired" or "ASi" communication

Valve body machined from forgings

No special tools needed for maintenance

www.idmc.com

### Material and options

Product wetted steel parts (MoC)	1.4404 (AISI 316L SS) / 1.4301 (AISI 304 SS)
Wetted parts surface finish	R <sub>a</sub> < 0.8 μm
Other parts	1.4301 (AISI 304 SS)
Product wetted elastomers	EPDM (Standard) / NBR (Options)
Product wetted elastomers confirm to	US FDA 21 CFR 177.2600
Other elastomers	NBR/PTFE

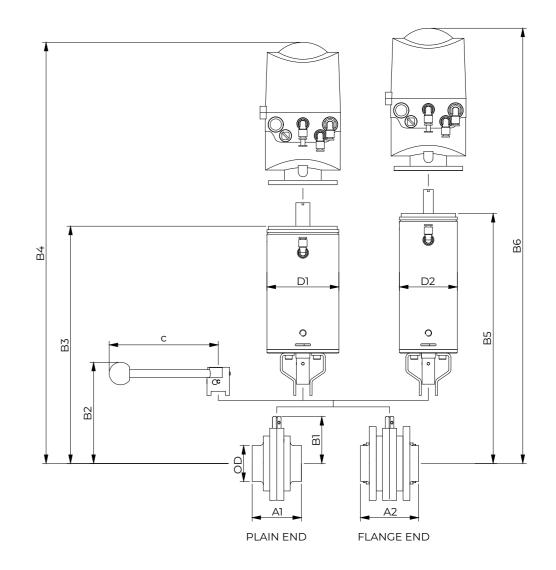
# **Operating Data**

#### Pressure and temperature

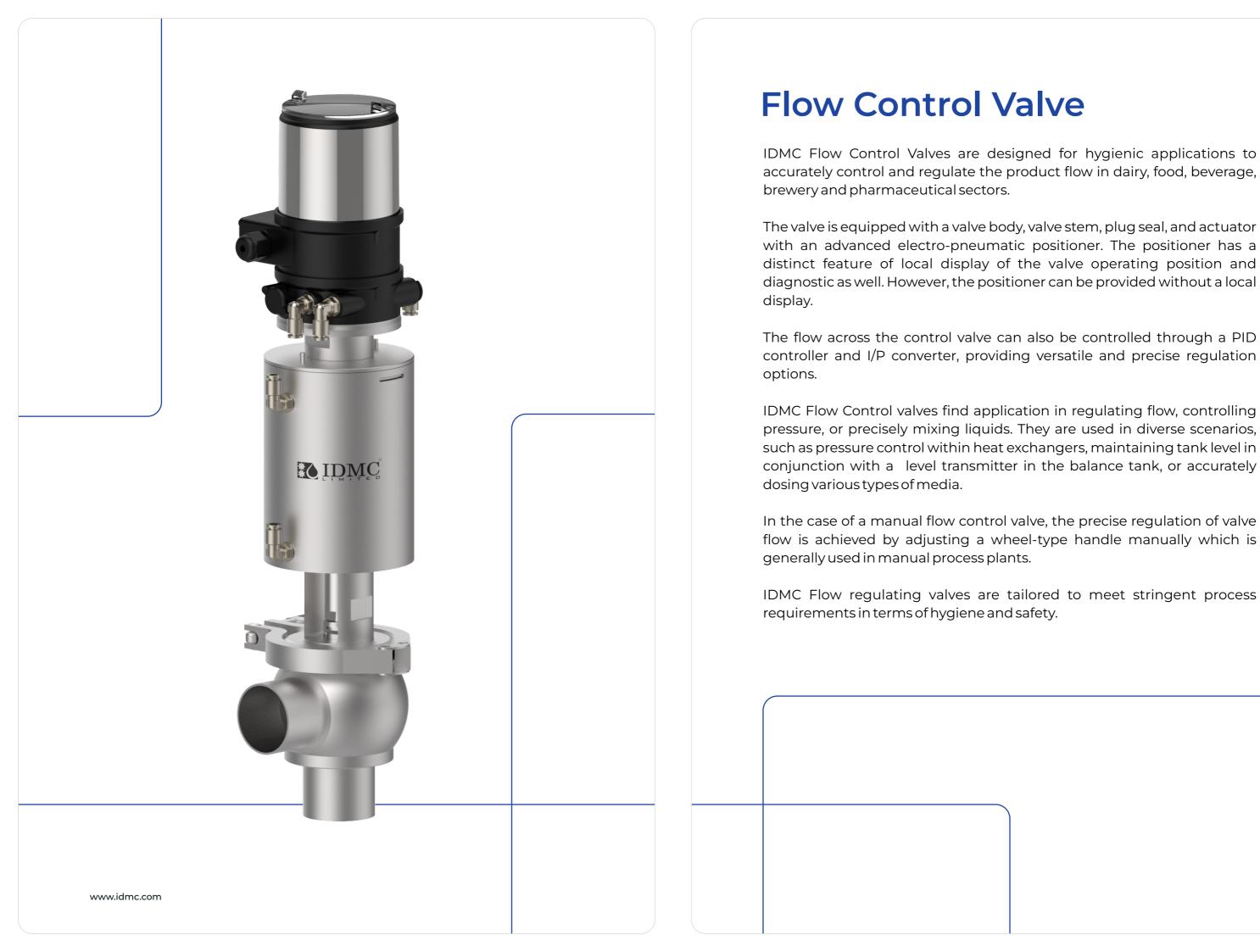
Maximum product pressure	up to 1000 kPa (10 bar)
Minimum product pressure	Full vacuum
Air Pressure	500 to 700 kPa (5 to 7 bar)
Temperature range	-10 °C to +125 °C



# Standard Dimensions



Valve	Dimensions in mm											
Sizes	OD	A1	A2	B1	B2	B3	B4	С	Dl	B5	B6	D2
1"	25.4	70	82	53	78	220	422	155	102	259	461	71
1.5"	38.1	70	82	56	80	223	425	155	102	262	464	71
2"	50.8	70	86	67	91	233	435	155	102	272	474	71
2.5"	63.5	80	92	70	95	236	438	155	102	-	-	-
3"	76.2	80	96	77	102	243	445	155	102	-	-	-
4"	101.6	90	104	93	118	259	461	155	102	-	-	-
6"	152.4	90	112.6	139	166	-	-	292	-	-	-	-



#### Inherent Features

The plug's design facilitates precise flow control, ensuring the attainment of the necessary Kv factor

The positioner receives the input signal in the form of 4-20 mA and controls the flow precisely

Easy start-up via tune function for position and process control

Valve body machined from solid bar stock

No special tools needed for maintenance

Designed as per EHEDG and 3A guidelines

## **Technical specifications**

#### Material and options

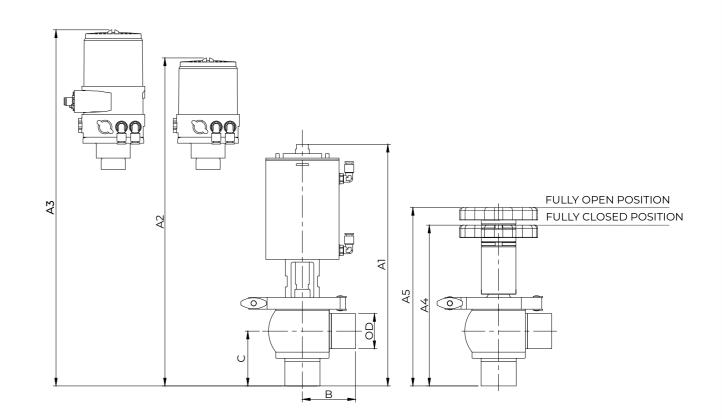
Product wetted steel parts (MoC)	1.4404 (AISI 316L stainless steel)
Wetted parts surface finish	$R_{a}$ < 0.8 $\mu m$ (Standard) / EP (Option)
Other parts	1.4301 (AISI 304 stainless steel)
Product wetted elastomers	EPDM (Standard) / NBR (Options)
Product wetted elastomers confirm to	US FDA 21 CFR 177.2600
Other elastomers	NBR/PTFE

## **Operating Data**

#### Pressure and temperature

Maximum product pressure	up to 1000 kPa (10 bar)
Air Pressure	500 to 700 kPa (5 to 7 bar)
Temperature range	-10 °C to +125 °C

### **Standard Dimensions**



Valve Sizes	Dimensions in mm								
	OD	A1	A2	A3	A4	A5	В	С	
1"	25.4	330	435	476	-	-	62	61	
1.5"	38.4	330	450	491	212	232	69	68	
2"	50.8	350	474	515	232	258	77	79	
2.5"	63.5	418	542	583	244	273	85	87	
3"	76.2	438	561	602	265	296	89	100	
4"	101.6	460	583	624	-	-	102	110	

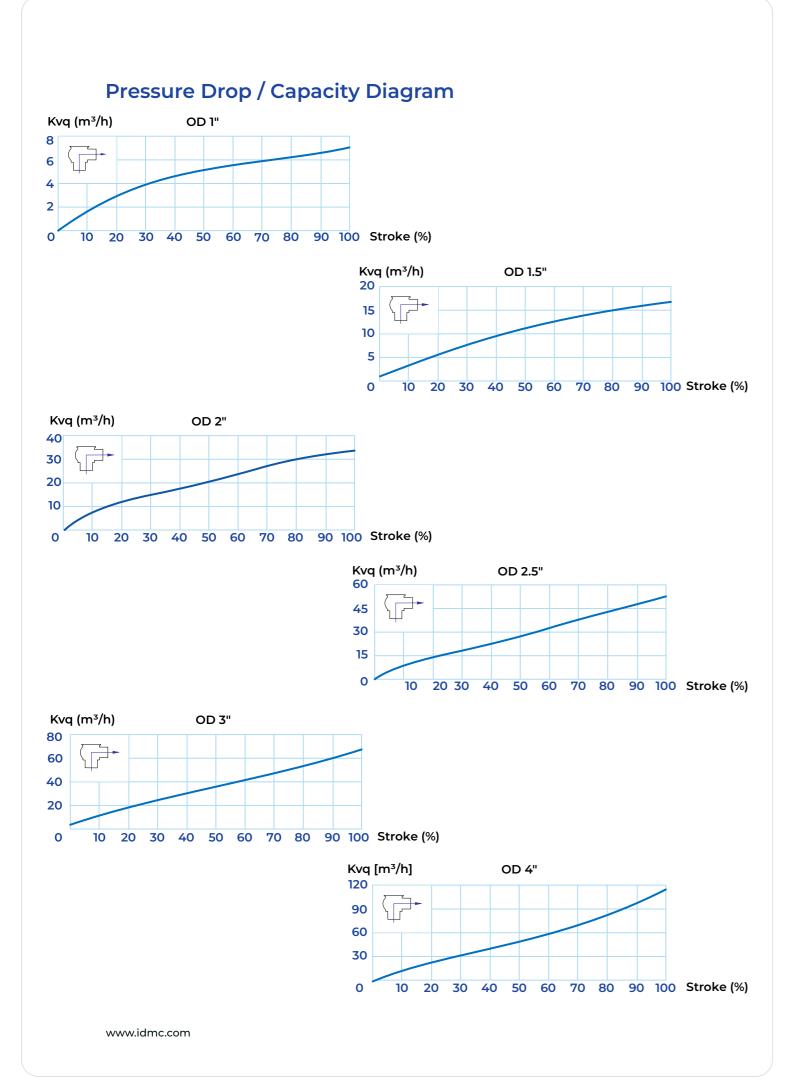
#### Note :

#### Pneumatic control valves

Dimensions A1 are for Normally Closed type valve without Positioner Dimensions A2 are of Positioner without digital display (model no. 8694) Dimensions A3 are of Positioner with digital display (model no. 8693)

#### Manual control valves

Dimensions A4 are for Normally Closed condition of valves Dimensions A5 are for Fully Opened condition of valves







# **Constant Pressure Modulating Valve**

IDMC Constant-Pressure Modulating (CPM) Valves effectively control and maintain constant pressure in the system, meeting the stringent requirements of food safety standards. The CPM valve can be utilized in diverse industries, including dairy, beverage, brewery and other food industries.

The valve is equipped with a valve plug and a diaphragm backed with a set of triangular stainless steel sections. It operates by maintaining a constant air pressure from the top, thereby ensuring a consistent product pressure throughout the system up to the valve's inlet.

Operated remotely through compressed air, the diaphragm and valve plug system responds promptly to changes in product pressure. This automated adjustment ensures constant pressure at pre-set values in the inlet, contributing to efficient and reliable operation. The valve not only delivers secure pressure control but also features a self-draining design, enhancing cleanliness and making it easy to install and operate.

### **Inherent Features**

Designed for direct assembling of the valve into a sanitary piping system Easy to install, safe to operate and simple to maintain Operation through a PID controller and I/P converter is possible

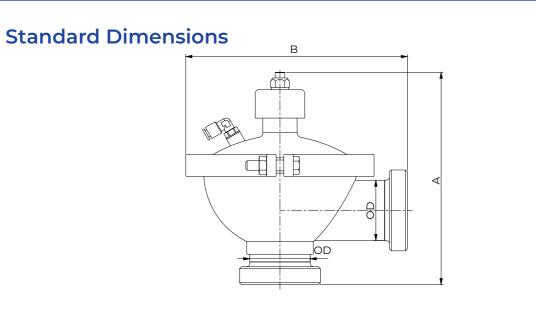
#### Material and options

Product wetted steel parts (MoC)	1.4404 (AISI 316L SS)		
Wetted parts surface finish	$R_{_a}$ < 0.8 $\mu m$ (Standard) / EP (Option)		
Other parts	1.4301 (AISI 304 SS)		
Product wetted elastomers	PTFE coated EPDM food grade rubber		
Product wetted elastomers confirm to	US FDA 21 CFR 177.2600		
Other elastomers	NBR / PTFE / EPDM		

## **Operating Data**

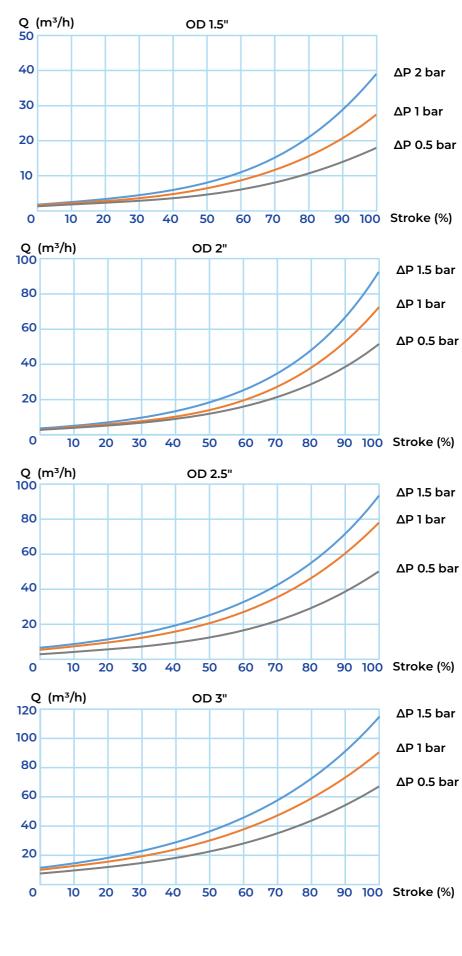
#### Pressure and temperature

Maximum product pressure	up to 1000 kPa (10 bar)		
Air Pressure	0 to 600 kPa (0 to 6 bar)		
Temperature range	-10 °C to +125 °C		



Valve Sizes	Dimensions in mm				
	OD	А	В		
1.5"	38.1	190	229		
2"	50.8	208	229		
2.5"	63.5	223	233		
3"	76.2	242	253		

# Pressure drop / capacity diagram



www.idmc.com

27