CPM CONSTANT PRESSURE MODULATING VALVE



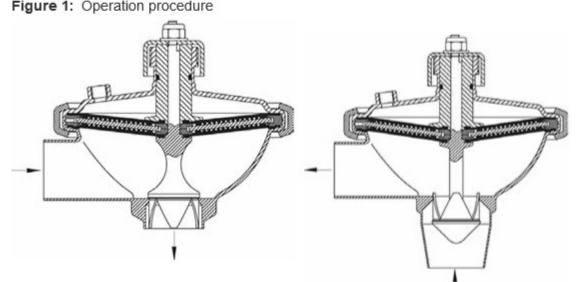
CPM-2 Valve

IMPLEMENTATION

CPMI-2,CPMDI-60 and CPMO-2 sanitary fixed pressure valves are used in stainless steel pipe systems. CPMI-2 and CPMDI-60 (fixed pressure inlet modulation) ensures fixed pressure at the valve inlet on the process line. Typical application areas of the valve are its use after heat exchanger, separator and overflow valve.

It ensures fixed pressure at the valve outlet on the CPMO-2 (fixed pressure outlet modulation) process line. Typical application area of the valve is its use before filling/bottling, etc.

Figure 1: Operation procedure

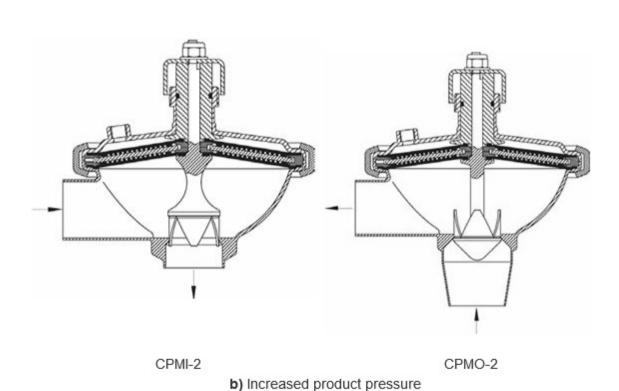


CPMI-2 a) Reduced product pressure CPMO-2

OPERATION PRINCIPLE

CPMI-2 and CPMO-2 valves are remotely controlled valves which run on pressurized air. Valves run on the manufacturing line without using a transmitter. Pressure setting valve and manometer are used only for pressurized air which is required for the valve. A diaphragm/valve sealing plug system instantly responds to any change in pressure on the product line and changes its position to ensure preset pressure.

CPMI-2 opens when product pressure increases, or closes otherwise. (see Figure 1)



TECHNICAL DATA

Max. Product Pressure	1000 kPa (10 bar)
Min. Product Pressure	0 kPa (0 bar)
Temperature Range	10°C to 95°C (EPDM)
Air pressure (CPMI-2/CPMO-2)	0 - 800 kPa (0 - 8 bar)
Air pressure (CPM-I-D60)	0 - 600 kPa (0 - 6 bar)
Flow Kv 23, fully open (Dp = 1 bar)	Approximately 23 m ³ /h
Flow Kv 7 (Δp = 1 bar)	Approximately 7 m ³ /h
Flow Kv 9 (Δp = 1 bar)	Approximately 9 m ³ /h
Flow Kv2/15 (Δp = 1 bar)	Approximately 2 m ³ /h
Flow range Kv60, fully open	
(Δp = 1 bar) (CPM-I-D60	Approximately 60 m ³ /h

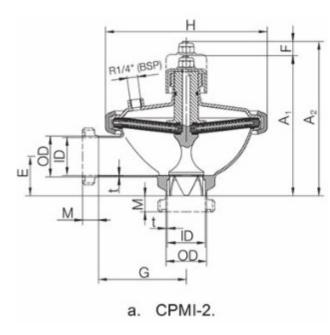
STANDARD DESIGN The valve consists of a valve body with a seat, upper cover, clamp and valve sealing plug which contain the diaphragm unit. The valve consist of a stainless disc placed in to a flexible diaphragm that separates the two parts of the valve. Upper cover valve body and seat are welded together.

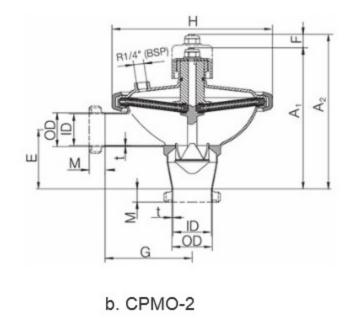
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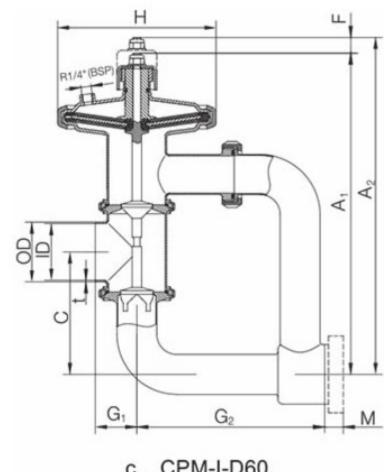
PHYSICAL DATA Materials that come

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into contact with the product	1.4404 (316L)
Other Materials	1.4301(304)
Lower Membrane	PTFE Coated EPDM
Upper Membrane	NBR
Air Fittings	R 1/4" (BSP), annular gear

DIMENSIONS:







C.	CI	IVI-I	-DC	υ.

G

Size		CPMI-2	(Constant		CPM-I-D60			
	Kv 23 Kv 7		Kv 2/15	Kv 23	Kv 9	Kv 2/15	76 mm	
A1	175.1	175.1	175.1	211	175.1	175.1	413.2	
A2	193.4	193.4	193.4	229.3	229.3	193.4	430	
С	-	-	-	-	-	-	155	
OD (inch/DN)	53/50.8	53/50.8	53/50.8	53/50.8	53/50.8	53/50.8	76	
ID (inch/DN)	50/47.6	50/47.6	50/47.6	50/47.6	50/47.6	50/47.6	72	
t (inch/DN)	1.6/1.5	1.6/1.5	1.6/1.5	1.6/1.5	1.6/1.5	1.6/1.5	2	
E (inch/DN)	50/49.2	50/49.2	50/49.2	50/49.2	50/49.2	50/49.2		
F	18.3	18.3	18.3	18.3	18.3	18.3	16.8	
G	110	110	110	110	110	110		
G1		-	-	-	-	-	53	
G2	-	-	-	-	-	-	240	
Н	203	203	203	203	203	203	200	

SIZES and ITEM NUMBERS

Ürün No/ Item No	Ürün No/ Item No DIN Boru/Pipe	Ölçü	Ölçü/Size		Ebat/Dimensions(mm)					
INC Boru/Pipe		mm	DIN	(m³/h)	min.	Max.	mm	E DIN	G	CPMI-2
9612305501	9612305505	51	50	23	175.1	193.4	49.2	50.4	110	<u></u>
9612305517	9612305519	51	50	7	175.1	193.4	49.2	50.4	110	
9612305503	9612305507	51	50	2/15	175.1	193.4	49.2	50.4	110	<
										- G
										CPMI-D60
3135661411		76		60	413.2	430	155	53	240	
										TENS III
										- Table 1
										G ₁ G ₂
										CPMO-2
9612305502	9612305506	51	50	23	211.0	229.3	89.2	86.3	110	
9612305504	9612305508	51	50	2/15	175.1	193.4	49.2	50.4	110	
						229.3	49.2	50.4	110	