

Features

- Variable flow proportional to the control signal
- Long service life
- High flow due to angled seat design
- Anti-water hammer design (fluid entry under the disc)
- Actuator rotatable through 360°
- Fail-last position
- Fluid isolation between electrical actuator and valve body
- LEDs identify valve position and status
- Vacuum service up to 7×10^{-3} Torr
- RoHS 2 compliant
- Ideal for "Lead Free" applications
- 24 VDC feedback signal

General

Fluid: Air, inert gas, liquids (water, oil, light slurries)

Fluid Temperature Range: 14°F to 194°F (-10°C to 90°C)

Ambient Temperature Range: 14°F to 122°F (-10°C to 50°C)

Maximum Viscosity: 2,700 SSU

Response Time: < 1.3 sec. (full opening) / < 1.3 sec. (full closing)

Flow Characteristics: Linearity $\pm 5\%$; hysteresis < 3%; accuracy < 3%;
sensitivity < 3%; repeatability < 3%

Construction

Valve Parts in Contact with Fluids	
Valve Body	316L Stainless Steel
Operator	Translucent Polyamide (PA)
Stuffing Box Housing	PBT (Thermoplastic Polyester Resin), 30% fiberglass reinforced
Stem Valve	303 Stainless Steel
Stuffing Box Packing	NBR
Wiper Seal	NBR
Disc Seal	NBR

Electrical

Connector	DIN Plug (ISO 4400 Form A)
Power Consumption	12 W (operating), < 2 W (holding/setpoint) Max peak current: 0.7 A
Visual Indication	LED
Enclosure	IP65
Standard Voltages	DC: 24V
Control Signal	4-20 mA

How to Order

8290CP2V0K4MA

+

V1

Base Catalog Number

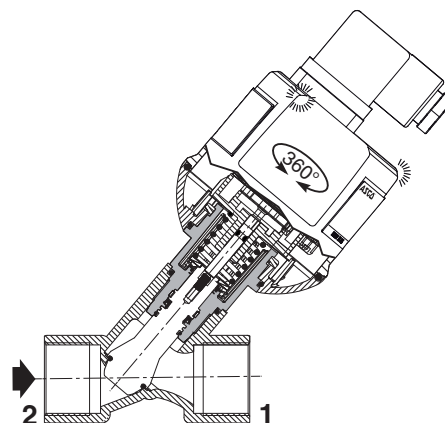
Refer to the Specifications Section

Voltage Code

V1 24 VDC



DC Construction



Approvals

Meets applicable CE directives

RoHS 2 Directive

EMC Directive 2004/108/EC

PED 97/23/EC, Article 3.3

Specifications (English units)

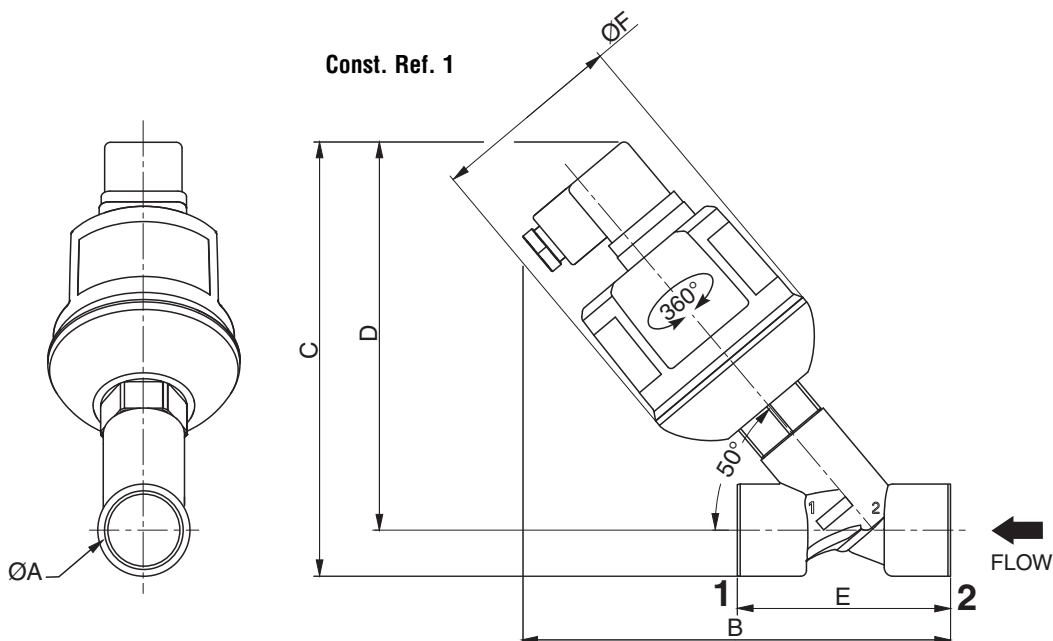
Pipe Size (in)	Cv Flow Factor	Operating Pressure Differential (psi)		Max. Fluid Temp. °F	Base Catalog Number	Voltage Code	Const. Ref.	Approx. Shipping Weight (lbs)
		Min.	Max.			24V (DC)		
Entry under the disc (4-20 mA)								
3/8	3.1	0	87	194	8290CP2V0K4MA	V1	1	1.2
1/2	4.4	0	72	194	8290CP3V0K4MA		1	1.2
3/4	6.9	0	58	194	8290CP4V0K4MA		1	1.2

Specifications (Metric units)

Pipe Size (in)	Kv Flow Factor (m³/h)	Operating Pressure Differential (bar)		Max. Fluid Temp. °C	Base Catalog Number	Voltage Code	Const. Ref.	Approx. Shipping Weight (kgs)
		Min.	Max.			24V (DC)		
Entry under the disc (4-20 mA)								
3/8	2.7	0	6	90	8290CP2V0K4MA	V1	1	0.55
1/2	3.8	0	5	90	8290CP3V0K4MA		1	0.55
3/4	6	0	4	90	8290CP4V0K4MA		1	0.55

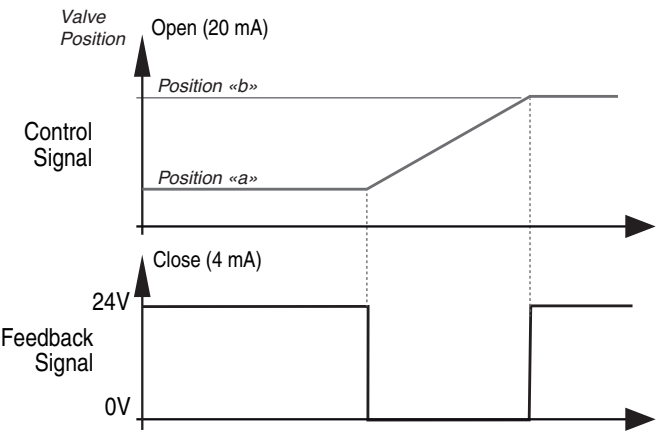
Dimensions inches (mm)

Const. Ref.		ØA	B	C	D	E	ØF
DC Version							
1	in	3/8	5.3	5.6	5.1	2.2	2.6
	mm		135	141	129	55	67
	in	1/2	5.6	5.7	5.2	2.6	2.6
	mm		142	145	131	65	67
	in	3/4	5.9	6	5.4	3	2.6
	mm		150	152	136	75	67



Valves can be mounted in any position.

OPERATING DIAGRAM



WIRING DC

