

290 - 390

PROPORTIONAL VALVES

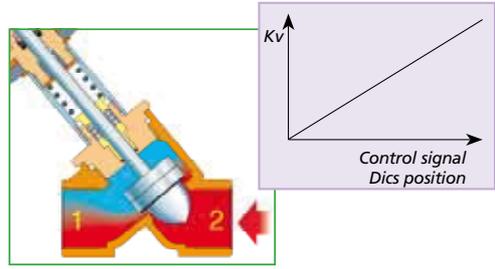


ASCO[™]


EMERSON[™]
Industrial Automation

POSITIONER^D

● **Easy installation and operation**

Installation	Operation
<p>Direct installation on valve Rotatable by 360°</p>	<p>Display LED indicator display of valve status and error diagnostics</p> 
<p>Ready to use: automatic initialisation, no manual settings required</p>	
<p>Easy start-up: Manual opening/closing by push-button</p>	<p>Linear flow curve and setpoint proportional to the flow coefficient (50% setpoint = 50% Kv)</p>  <p style="text-align: right; font-size: small;">Series 290</p>
<p>Easy electrical connection: by cable gland or M12 connector</p> 	

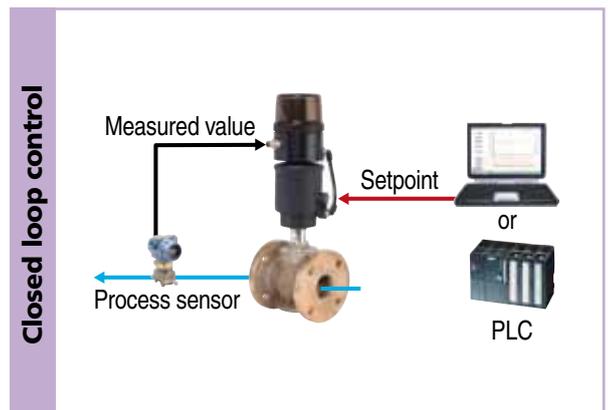
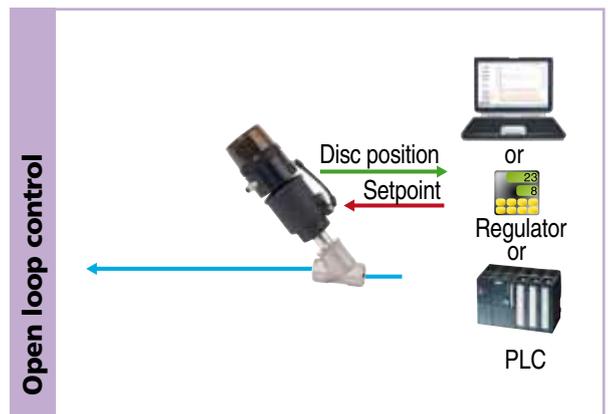
● **Robust and reliable**

- **Safety valve function:**
Valve closes automatically on loss of power
- **Low noise emission:**
Air exhaust in the actuator, filtered exhaust
- **Ingress protection: IP66**
- **Vibration resistance: 5G**

● **Cost-effective design**

- **Reduced installation and connection costs:** space-saving design
- **Long service life:**
3 million cycles
- **Reduced air consumption:**
 - . low-volume actuator (0.021 dm³ - operator 63 mm): air supply time: < 1s
 - . no air consumption when valve position is reached
- **Power consumption reduced by 50%** when position is reached: from 7,6 to 3,6
- **Only one signaling box** for all operator sizes, 63, 90 and 125 mm

Open and closed loop control

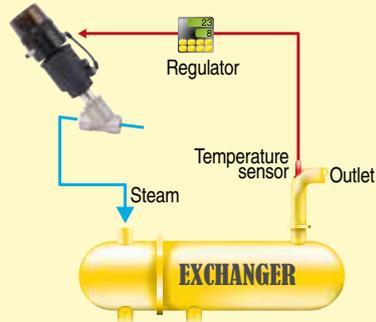


PROPORTIONAL VALVES

For all your applications

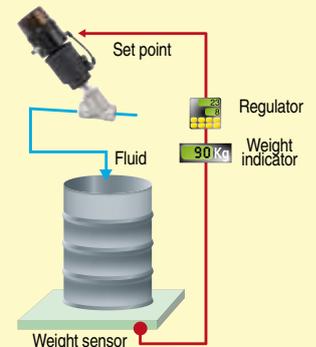
The valves can be integrated into many processes: sequential control systems, regulation in open or closed loop, flow or pressure control by servo-adjustment of the disc stroke.

HEAT EXCHANGER



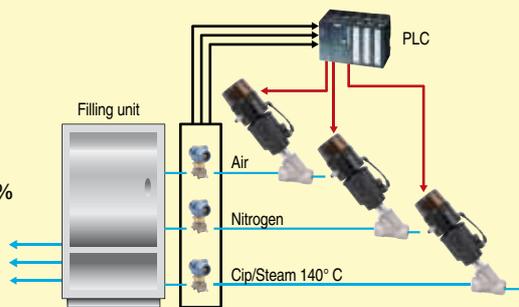
For all fluids:
Steam applications
up to 184°C

FILLING/DOSING



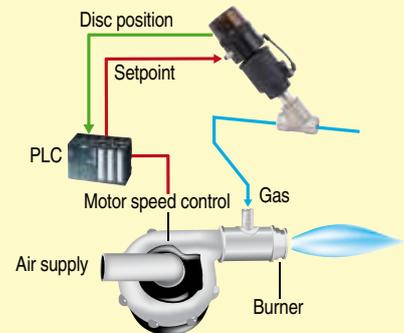
No spills:
Safety valve closes on loss of
power

FOOD PROCESSING



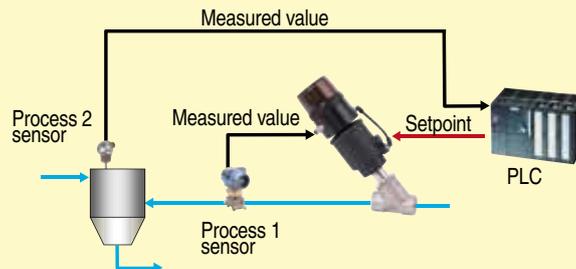
Less maintenance:
High reliability,
repeatability < 1%

BURNER



**Quick adjustment of
required flame length:**
Short response times
(min. 1s - 63 mm operator
max. 6s - 125 mm operator)

MIXING



**High finished product quality,
less rejects:**
Speed and precision
< 2% of the max. disc stroke

Experts' Corner



**Software to modify the initial parameters
(downloadable from our website at: www.asconumatics.eu)**

- **Adjustable parameters (PID)**
Setpoint, control range, ramp function, control parameters
- **Parameter read-out via scope function**
Setpoint, internal control parameters
- **Valve diagnostics**
Factory settings, customer settings

PROPORTIONAL VALVES - SERIES 290 and 390

FLUIDS	Water, air, neutral gas, industrial vacuum, steam (180°C), corrosive fluids	Water, air, neutral gas, industrial vacuum, steam (180°C), corrosive fluids	
Series	BRONZE - INOX 2/2 NC	BRONZE 3/2 NC	
NOMINAL DIAMETER	15 to 65 mm	15 to 50 mm	
DIFFERENTIAL PRESSURE	0 - 16 bar ⁽¹⁾	0 - 16 bar	
MAX. ALLOWABLE PRESSURE	16 bar	16 bar	
FLUID TEMPERATURE	- 10°C, + 180°C	- 10°C, + 180°C	
AMBIENT TEMPERATURE	- 10°C, + 60°C	- 10°C, + 60°C	
OPERATORS	Ø 63, 90 and 125 mm	Ø 63, 90 and 125 mm	
PILOT FLUID	Air	Air	
PILOT PRESSURE	4 to 8 bar ⁽²⁾		
ANALOG SETPOINT	0-10V DC 4-20 mA		
DISC POSITION SIGNAL	0-10V DC 4-20 mA		
INGRESS PROTECTION	IP66		
SUPPLY VOLTAGE	24V DC +/- 10%		
OPERATORS	63 mm	90 mm	125 mm
RESPONSE TIME (OPENING)	1s (DN20)/2s	2s	4,6s (DN32)/5s
RESPONSE TIME (CLOSING)	1s (DN20)/2s	2,5s	4,9s (DN32)/6s

⁽¹⁾ Pmax 16 bar, depending on connections and operators

⁽²⁾ Other pilot pressures: 1,5 to 8 bar or 2,5 to 8 bar



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