

290 - 390

PROPORTIONAL VALVES

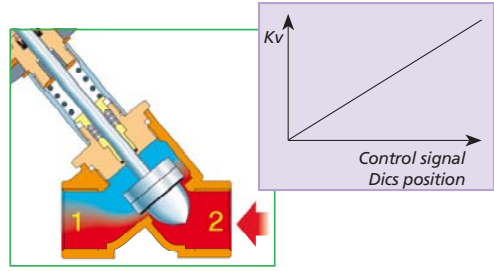


ASCO[®]


EMERSON[™]
Industrial Automation

POSITIONER^D

● **Easy installation and operation**

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

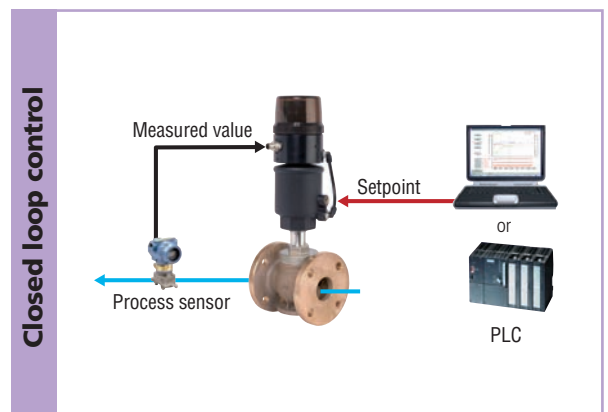
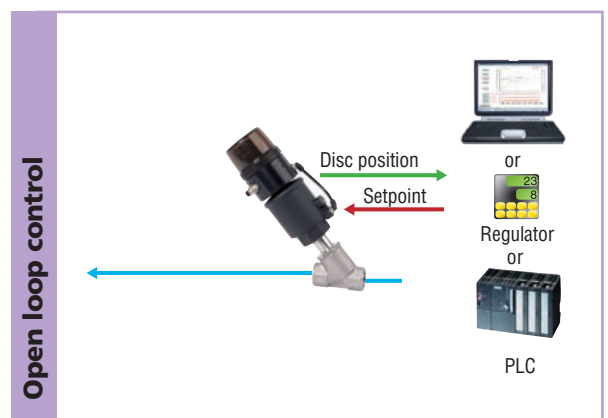
● **Robust and reliable**

- **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



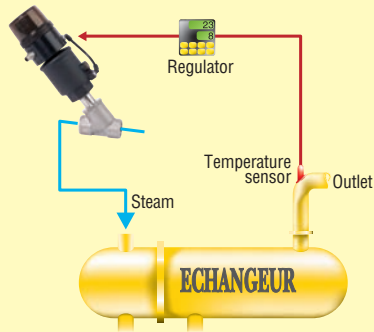
PROPORTIONAL VALVES

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.

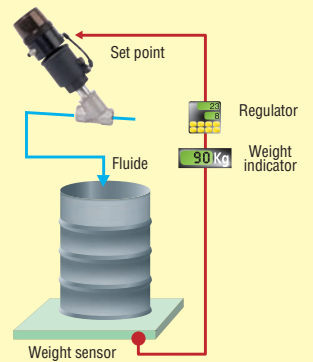
HEAT EXCHANGER

For all fluids:
Steam applications
up to 184°C



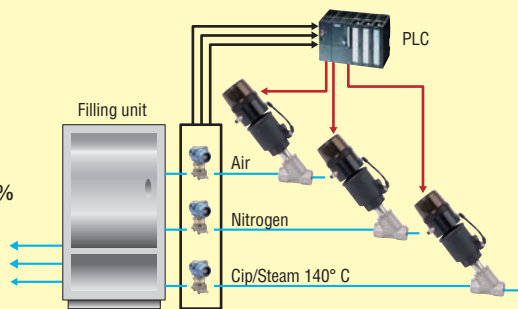
FILLING/DOSING

No spills:
Safety valve closes on loss of power



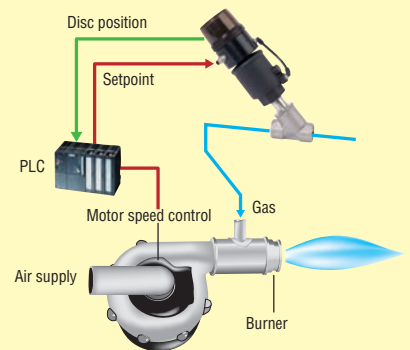
FOOD PROCESSING

Less maintenance:
High reliability,
repeatability < 1%



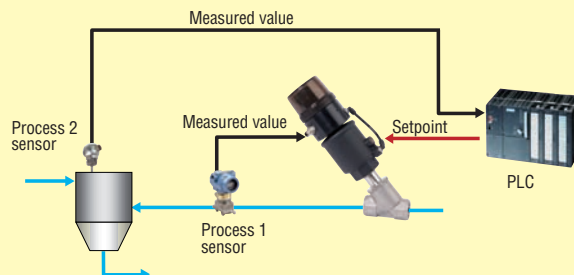
BURNER

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

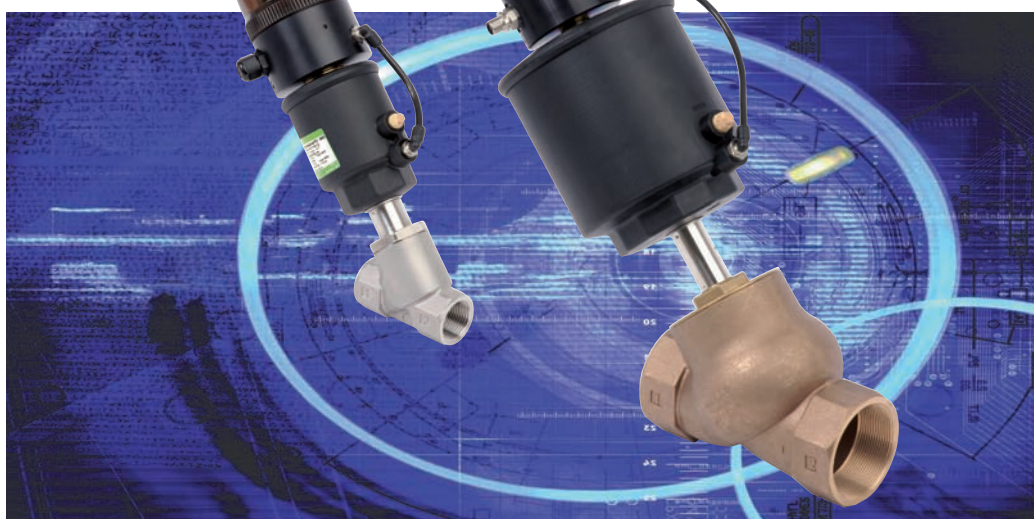
FLUIDS	Water, air, neutral gas, industrial vacuum, steam (180°C), corrosive fluids	Water, air, neutral gas, industrial vacuum, steam (180°C), corrosive fluids
Series	BRONZE - INOX 2/2 NC	BRONZE 3/2 NC
NOMINAL DIAMETER	15 to 65 mm	15 to 50 mm
DIFFERENTIAL PRESSURE	0 - 16 bar ⁽¹⁾	0 - 16 bar
MAX. ALLOWABLE 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

ASCO
numatics™


EMERSON™
Industrial Automation



Printed in France - Non-binding document.



Представитель в Украине

ООО ИТО

09117, г. Белая Церковь
ул. Шолом-Алейхема, 17
тел./факс: (0456) 390-604, 390-607

office@ito.kiev.ua
www.ito.kiev.ua

Киевский департамент

04074, г. Киев
ул. Автозаводская, 2
тел./факс: (044) 537-25-07, 451-89-87

dpt@ito.kiev.ua

383 73 01a . 1M0210