290 Series

Motorised valves



ASCO™

EMERSON™

Motorised valves 2/2 versions on / off or proportional

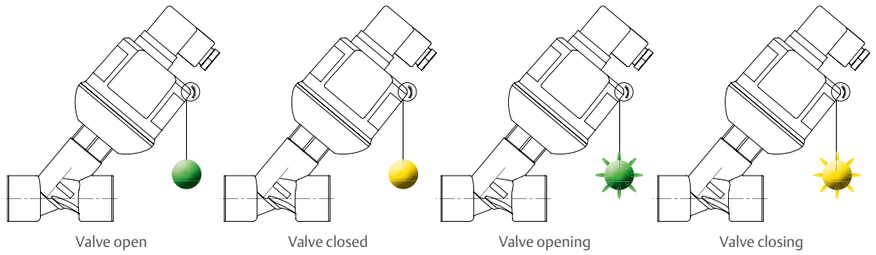
Easy to use and install

Installation

- Simple electrical connection via a connector ISO 4400 (M12 connector optional):
  - 24 VDC or 110 to 250 VAC 50/60 Hz
  - 24 to 48 VAC 50/60 Hz
- Auto-adjustment and auto-initialisation from the first time it is powered up

Use

- 360° view of the valve status through LEDs



- Response time < 3 seconds / cycle

Optional

- Closing of the valve in case of power failure

Reliable and robust

- Degree of protection: IP65
- The electronic card is protected with a TRANSIL
  - ➥ Reliability
  - ➥ Cost reduction
    (no additional device needed)

Cost saving

- Operation without compressed air, no air treatment devices needed.
- **Low power consumption:**
  12 W during the opening and closing phase (Response time < 1,3 second) and 0 W (holding)

Compact and light

- **Compact:** actuator 67 mm for 3 DN (10, 15 and 20 mm)
- **Light:** - DC version = 0,450 to 0,650 kg
  - AC version = 0,600 to 0,750 kg

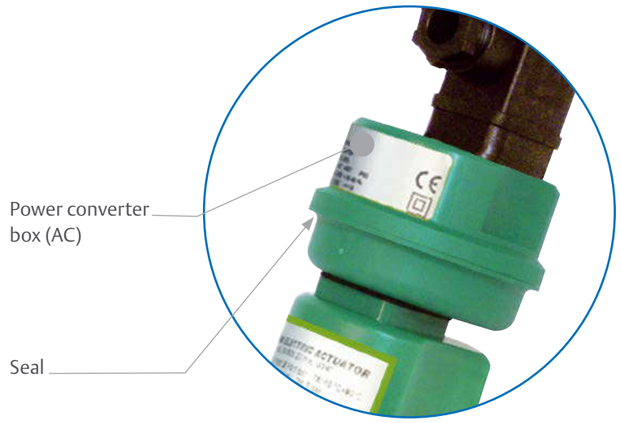
) according to the DN

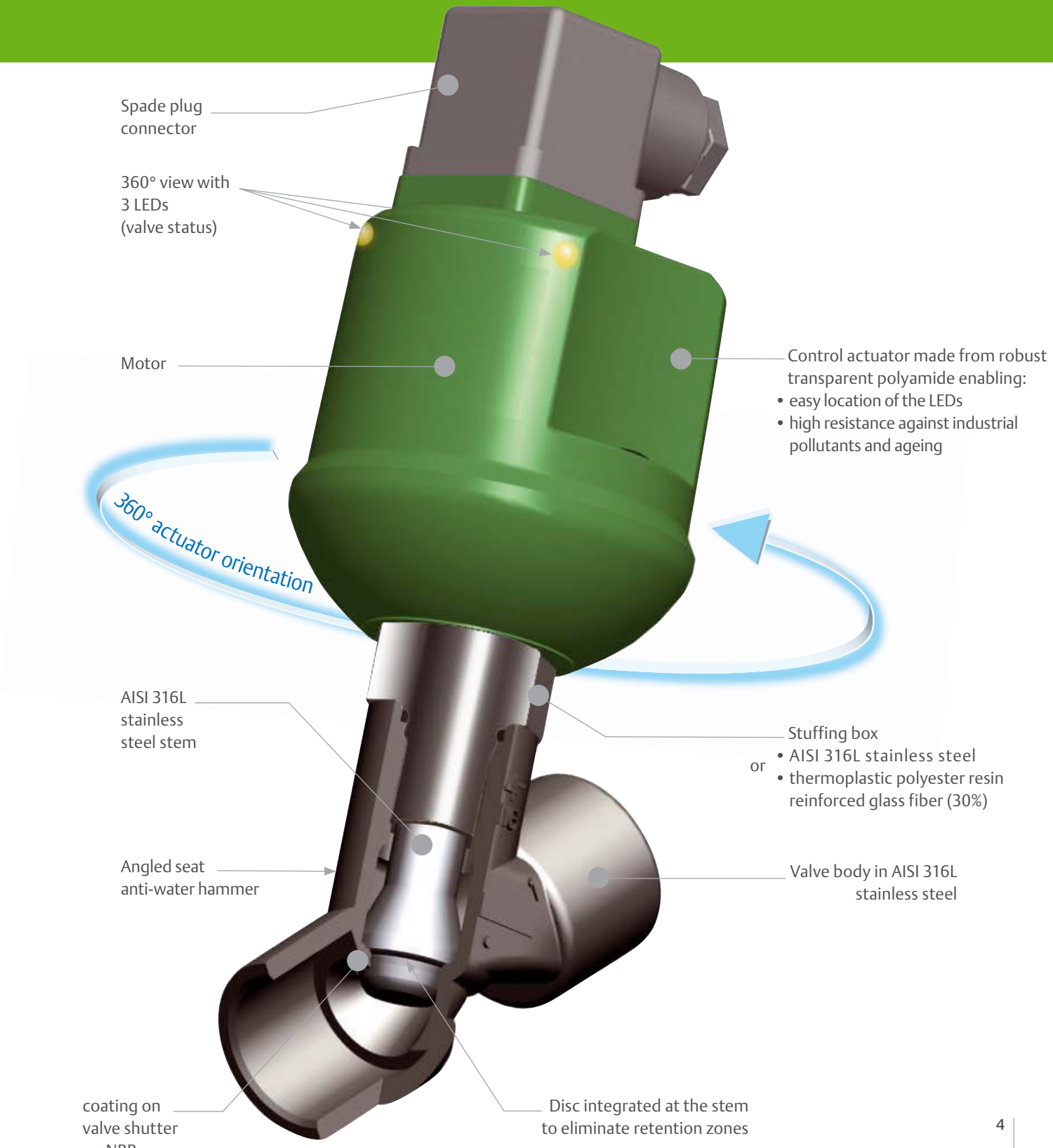


Environmentally friendly

- ➥ No exhaust air
- ➥ works silently
- ➥ ASCO, ISO 14001 certified

FDA Certification




Spade plug connector
360° view with 3 LEDs (valve status)
Motor
Control actuator made from robust transparent polyamide enabling:
• easy location of the LEDs
• high resistance against industrial pollutants and ageing
360° actuator orientation
AISI 316L stainless steel stem
Stuffing box
or
• AISI 316L stainless steel
• thermoplastic polyester resin reinforced glass fiber (30%)
Angled seat anti-water hammer
Valve body in AISI 316L stainless steel
coating on valve shutter
or
• NBR
• FPM
Disc integrated at the stem to eliminate retention zones

Technical specifications

General specifications

Fluids	Water, air, oil, gas, unfiltered fluids, viscous fluids (max. viscosity 600 cSt)		
Connection	ISO 228/1 & ISO 7/1 or NPT		
DN	10	15	20
Pipe size	3/8"	1/2"	3/4"
Differential pressure	0-6 bar	0-5 bar	0-4 bar
Maximum allowable pressure	10 bar	10 bar	10 bar
Flow (Kv)	2.7 m^3/h	3.8 m^3/h	6 m^3/h
	NBR / PBT	FPM SS	
Fluid temperature	-10°C to +90°C	-10°C to + 145°C (steam)	
Ambient temperature	-10°C to +50°C	-10°C to +50°C	
Valve actuator	67 mm	67 mm	
Response time	< 1,3 seconds	< 1,3 seconds	

Technical specifications

		"On/off"	Proportional
Connector		Spade plug (cable Ø 6-10 mm)	
Motor consumption		12 W during opening/closing, 0 W (holding) Maximum peak current: 0.7 A	
Visualisation valve (switching)		3 LEDs display	
Electrical compliance (AC/DC adapter)		IEC 335 (EN-IEC 60730), class 2	
Certification		PED 2014/68/EU, EMC 2014/30/EU, RoHS 2, Low voltage 2014/35/EU	
Degree of protection		IP65 (EN 60529)	
Voltages (EN-IEC 61131-2)	standard	DC (=) : 24 V ±10 % - max. residual ripple 5%	
		AC (~) : 110 V to 250 V / 50-60 Hz	
		AC (~) : 24 V to 48 V / 50-60 Hz	
Set point			0 - 10 V (input resistance : 10 K Ω)
			4 - 20 mA (input resistance : 500 Ω)

Option to control valve using input/output modules and G3 electronic modules



Applications

- Sterilizers
- Wine production (thermoregulation)
- Food process
- Car wash equipment
- Hydrotherapy
- Water treatment (treatment tower - tank filling)
- Industrial/domestic heating/cooling equipment
- On-board equipment (agriculture, road-cleaning vehicles, coach buses, etc.)

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