

# ELECTRO-PNEUMATIC POSITIONER - EDP300

## TYPE 5402



### GENERAL

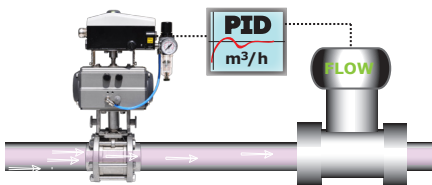
|                         |                                |
|-------------------------|--------------------------------|
| INPUT SIGNAL:           | 4 - 20 mA, TWO-WIRE TECHNOLOGY |
| STROKE RANGE:           | 25° - 270°                     |
| SUPPLY AIR:             | 1.4 - 10 BAR (20-145 PSI)      |
| AIR FLOW:               | 5.5 - 40 NM <sup>3</sup> /H    |
| AMBIENT TEMPERATURE:    | -40° C TO +85° C.              |
| HOUSING:                | ALUMINUM, EPOXY COATED, IP65   |
| VIBRATION IMMUNITY:     | DIN/IEC 60068-3-3 CLASS III    |
| STANDBY AIRCONSUMPTION: | < 0.03 KG/H                    |
| CONTROL ACCURACY:       | ≤0.5%                          |

### OPTIONS

|                      |  |
|----------------------|--|
| EX PROTECTION:       | DIFFERENT VERSIONS   |
| PLUG-IN MODULES FOR: | ANALOG POSITION FEEDBACK<br>DIGITAL POSITION FEEDBACK (FOR MIN./MAX. POSITION)<br>SAFETY SHUTDOWN MODULE |
| KIT FOR SWITCH BOX:  | INDUCTIVE SENSOR (NC OR NO)<br>MECHANICAL MICRO SWITCH 24V AC/DC   |
| ACCESSORIES:         | PRESSURE GAUGE BLOCK<br>FILTER REGULATOR   |

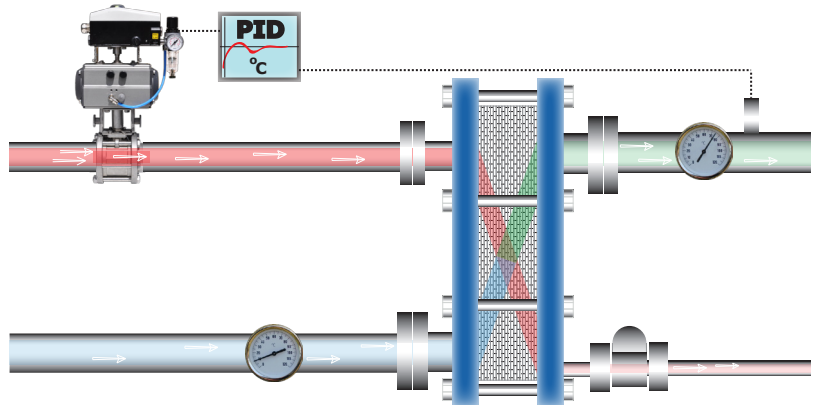
### APPLICATION

Flow control

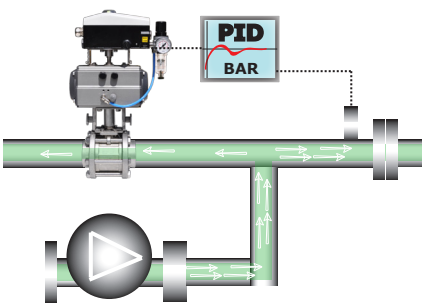


Temperature control on a heat exchanger.

Media type: Steam, hot, water, hot oil, ice water, glycol etc.



Pressure control / bypass valve

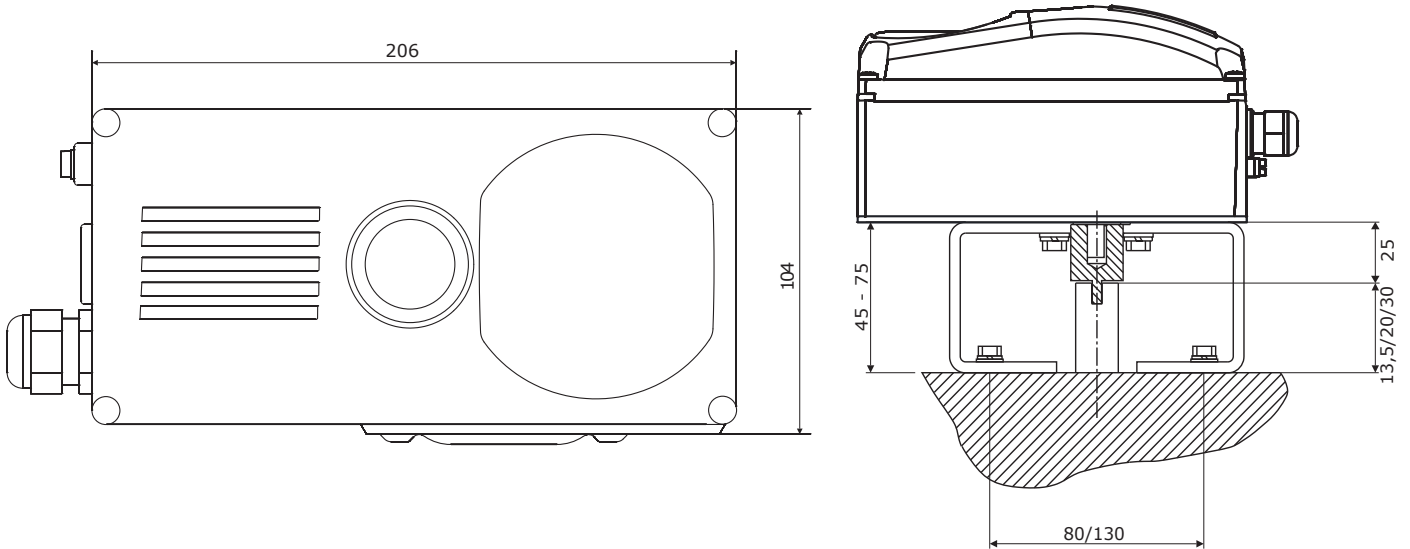


### DESCRIPTION

- Documented lowest air consumption on the market.
- Only needs to pull one cable (2 wires), as the EDP-300 operates on 3.6 mA.
- 4-20 mA, 20-4 mA and split range.
- Flapper - Nozzle principle  
Advantages:  
Less sensitive to dirt in the supply air.  
Less sensitive to oil and water remains in the air.  
Less sensitive to vibrations.  
Regulates on low supply air.
- Available with Profibus and Foundation Fieldbus.
- Easy initialisation - only needs one touch.
- Optimised algorithm for extremely fast and accurate positioning.
- Integrated diagnostical function.
- Available with Belzona coating for demanding environments.
- Robust design and function.
- Visual indicator.
- Large program span with many options.

## DIMENSIONS

ALL DIMENSIONS IN MM



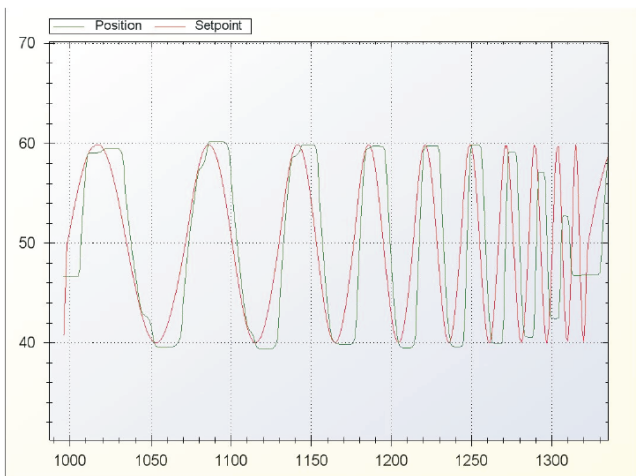
## EDP-300 WITHOUT TOP COVER



## DIAGNOSTICS

If you connect the EDP-300 positioner to a PC, there are multiple options for doing diagnostics on valve and actuator. Below are two examples:

This example shows the real position of the valve versus the desired setpoint:



M10127

This example shows a histogram of the valve position, allowing the users to assess if the correct valve dimension is chosen:

