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# HV throttling pendulum valve, Analog/TTL controller

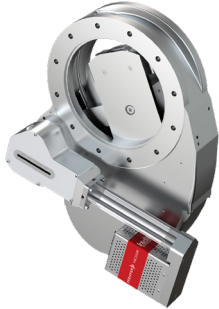
DN 150 JIS, Analog controller, bright dipped finish, 24 V DC ( $\pm 5\%$ )

Part number: TPVQPANN-A109

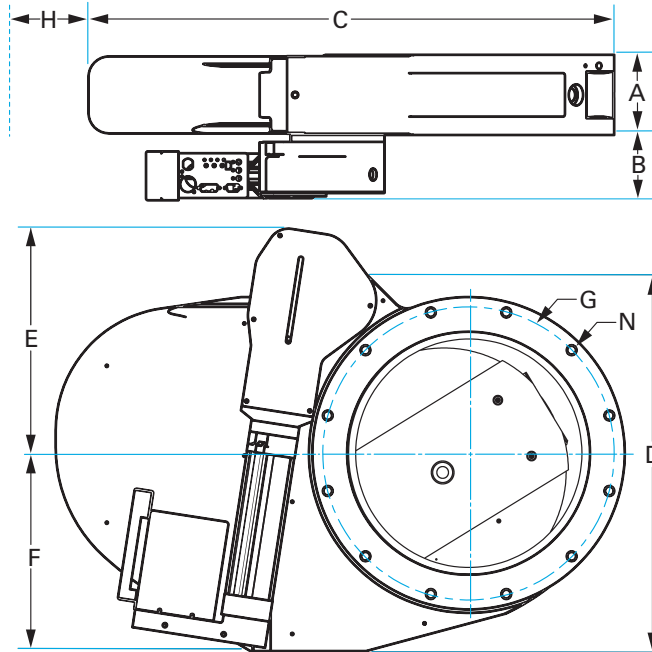
## HV throttling pendulum valve, Analog/TTL controller

### DN 150 JIS, Analog controller, bright dipped finish, 24 V DC ( $\pm 5\%$ )

- Adaptive algorithm for improved stability and faster transitions
- Space saving, low cost design
- High reliability, low particle generation
- Can be operated in any orientation
- Body can be heated up to 120°C with optional heater jackets
- CE marked/fully REACH and RoHS compliant



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| Dimensions<br>(in inches) |        |
|---------------------------|--------|
| Dim A                     | 3.46"  |
| Dim B                     | 3.31"  |
| Dim C                     | 20.5"  |
| Dim D                     | 13.5"  |
| Dim E                     | 7.64"  |
| Dim F                     | 11.1"  |
| Dim G                     | 7.87"  |
| Dim H                     | 5.31"  |
| Bolt Hole Thread          | M10    |
| Thread Depth              | 0.394" |
| # Bolt Holes              | 8      |

#### TPVQPANN-A109

| Parameters                     | Specifications                                  |
|--------------------------------|---|
| Valve / Flange Size            | DN 150 JIS                                      |
| Communications Interface       | Analog  |
| Finish                         | Bright Dipped                                   |
| Additional Controller Features | none  |
| Flange Size / Type             | DN 150 JIS                                      |
| Controller Communications      | Analog/TTL system interface; RS232 service port |
| Supply Voltage                 | 24 V DC ( $\pm 5\%$ )                           |
| Power Connector                | XLR, 5-pin, Female                              |
| Gauge Power Supply             | not included                                    |
| Power Fail Option              | not included                                    |
| Pressure Range                 | $3.8 \cdot 10^{-8}$ mbar to 1.1 bar             |

**HV throttling pendulum valve, Analog/TTL controller**  
**DN 150 JIS, Analog controller, bright dipped finish, 24 V DC (±5 %)**

**TPVQPANN-A109**

| Parameters <i>(Continued)</i> | Specifications <i>(Continued)</i> |
|-------------------------------|-----------------------------------|
| Max Differential at Opening   | 27 mbar                           |
| Max Temp (body)               | 150 °C                            |
| Temp. Limits (actuator)       | 5 °C (minimum), 45 °C (maximum)   |
| Open / Close Time             | 3.3 s/2.8 s                       |
| Open Conductance              | 5000 l/s                          |
| Min. Control Conductance      | 0.1 l/s                           |
| Material (valve body)         | 6061-T6 Aluminum                  |
| Material (valve mechanism)    | 304 Stainless & 6061-T6 Aluminum  |
| Gate Seal                     | FKM                               |
| Bonnet Seal                   | FKM                               |
| Leak Rate (body)              | 1 · 10 <sup>-9</sup> mbar l/s     |
| Leak Rate (gate)              | 1 · 10 <sup>-9</sup> mbar l/s     |
| Service Life                  | 1 million cycles                  |
| Weight                        | 39.6 lbs                          |

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