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# HV throttling pendulum valve, Analog/TTL controller

DN 160 ISO-F, Analog controller, bright dipped finish, 24 V DC ( $\pm 5\%$ )

Part number: TPVQPANG-A103

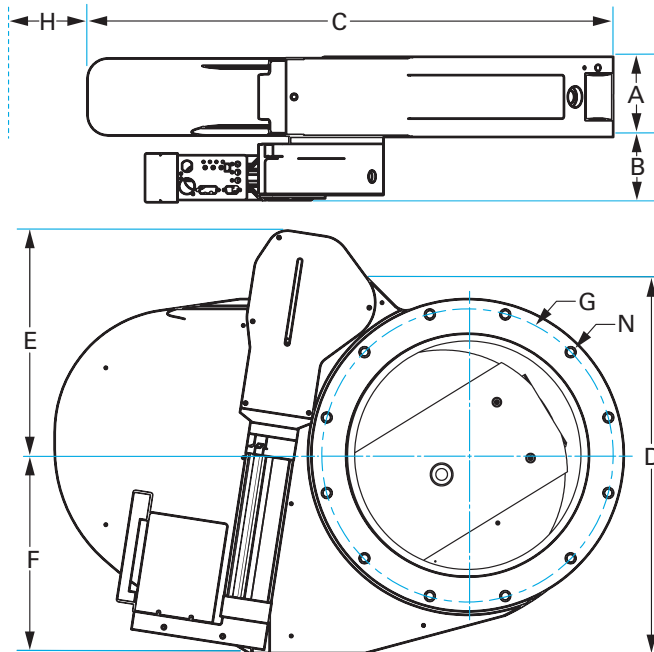
## HV throttling pendulum valve, Analog/TTL controller

DN 160 ISO-F, 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 (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

### TPVQPANG-A103

Parameters	Specifications
Valve / Flange Size	DN 160 ISO-F
Communications Interface	Analog
Finish	Bright Dipped
Additional Controller Features	Gauge Supply
Flange Size / Type	DN 160 ISO-F
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	$\pm 15$ V DC ( $\pm 5\%$ ), 1.4 A max.
Power Fail Option	not included
Pressure Range	$3.8 \cdot 10^{-8}$ mbar to 1.1 bar

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**DN 160 ISO-F, Analog controller, bright dipped finish, 24 V DC ( $\pm 5\%$ )**

**TPVQPANG-A103**

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)	$1 \cdot 10^{-9}$ mbar l/s
Leak Rate (gate)	$1 \cdot 10^{-9}$ mbar l/s
Service Life	1 million cycles
Weight	39.82 lbs

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