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# HV throttling pendulum valve, RS-232 controller

DN 200 ISO-F, RS232 controller, bright dipped finish, 24 V DC ( $\pm 5\%$ )

Part number: TPVQPNN-A113

Nor-Cal Products



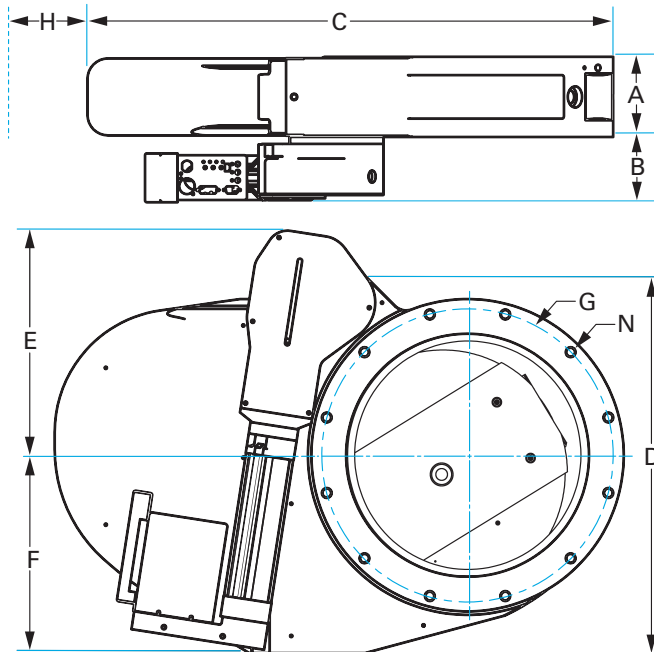
by PFEIFFER VACUUM

## HV throttling pendulum valve, RS-232 controller DN 200 ISO-F, RS232 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	3.46"
Dim C	22.9"
Dim D	15.7"
Dim E	9.06"
Dim F	9.57"
Dim G	10.2"
Dim H	6.50"
Bolt Hole Thread	M10
Thread Depth	0.394"
# Bolt Holes	12

### TPVQPNN-A113

Parameters	Specifications
Valve / Flange Size	DN 200 ISO-F
Communications Interface	RS232
Finish	Bright Dipped
Additional Controller Features	none
Flange Size / Type	DN 200 ISO-F
Controller Communications	RS232 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, RS-232 controller**  
**DN 200 ISO-F, RS232 controller, bright dipped finish, 24 V DC (±5 %)**

**TPVQPNN-A113**

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	12000 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	48.84 lbs

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Headquarters: USA

1-800-824-4166 or 530-842-4457

[nccsales@n-c.com](mailto:nccsales@n-c.com)

[www.n-c.com](http://www.n-c.com)



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