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# HV throttling pendulum valve, Analog/TTL controller

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

Part number: TPVQPABG-H103

## HV throttling pendulum valve, Analog/TTL controller

### DN 160 ISO-F, Analog controller, hard anodized 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      |

#### TPVQPABG-H103

| Parameters                     | Specifications                                  |
|--------------------------------|---|
| Valve / Flange Size            | DN 160 ISO-F                                    |
| Communications Interface       | Analog  |
| Finish                         | Hard Anodized                                   |
| Additional Controller Features | Gauge Supply & Power Fail Option                |
| 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              | included  |
| Pressure Range                 | $3.8 \cdot 10^{-8}$ mbar to 1.1 bar             |

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**TPVQPABG-H103**

| 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, Hard anodized                 |
| Material (valve mechanism)    | 304 Stainless & 6061-T6 Aluminum, Hard anodized |
| Gate Seal                     | FKM   |
| Bonnet Seal                   | FKM   |
| Leak Rate (body)              | $1 \cdot 10^{-9}$ mbar l/s                      |
| Leak Rate (gate)              | $1 \cdot 10^{-6}$ mbar l/s                      |
| Service Life                  | 1 million cycles                                |
| Weight                        | 40.26 lbs                                       |

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