Throttle Body with Integrated Stepper Motor

P/N 30.43.050-D, P/N 30.43.050-D-HT, P/N 30.43.055-D, P/N 30.43.055-D-HT

Variations
- Standard diameters D of the throttle *(see drawing)*
- Possible diameters of the throttle
  - 42 mm (1.65”)
  - 41 mm (1.61”) to 42 mm (1.65”)

Dimensions
- Length/width of mounting flange
  - 86.7 mm (3.41”)
- Hole spacing on the mounting flange
  - 57 mm (2.24”)
- Height of mounting flange
  - 40 mm (1.57”)
- Length including stepper motor
  - 232.9 mm (9.17”) *(standard version)*
  - 247.9 mm (9.76”) *(HT version)*
- Width of stepper motor
  - 56.4 mm (2.22”)

Connections
- Stepper motor
  - 10-pole military connector

Weight
- P/N 30.43.050-42, P/N 30.43.055-42
  - 2.1 kg (4.63 lbs)
- P/N 30.43.050-42-HT, P/N 30.43.055-42-HT
  - 2.2 kg (4.85 lbs)

Mechanical Data
- Maximum rotation angle of the throttle
  - 80°
- Chemical resistance
  - Water, oil, gaseous fuels
- Absolute pressure
  - 4.5 bar (65 psi)
- Maximum temperature of media flowing through
  - +125 °C (+257 °F) *(standard version)*
  - +200 °C (+392 °F) *(HT version)*

Climatic Environmental Conditions
- Permissible temperature range
  - −20 °C to +85 °C (−4 °F to +185 °F)
- Maximum relative humidity
  - 95%

Characteristics of Stepper Motor
- Resolution
  - 0.05625°
  - (in 1/16 microstep operation mode)
- Speed (when opening from 10% to 90%)
  - 40 ms *(VariStep3)*
- Holding torque
  - 1.7 Nm (1.25 lb-ft) *(VariStep3)*
Overview Drawings

P/N 30.43.055-D and P/N 30.43.055-D-HT also correspond to the following drawings, but without the seal (O-ring, 56.75 mm x 3.53 mm [2.23” x 0.14”]) and the groove required for it.

P/N 30.43.050-D

![Diagram of P/N 30.43.050-D](image1)

166.1 mm (6.54”)

232.9 mm (9.17”)

P/N 30.43.050-D-HT

![Diagram of P/N 30.43.050-D-HT](image2)

181 mm (7.13”)

247.9 mm (9.76”)

8,5 mm (0.33”)

8,5 mm (0.33”)