I Throttle Body with Integrated Stepper Motor
P/N 30.43.100-D, P/N 30.43.100-D-HT, P/N 30.43.105-D, P/N 30.43.105-D-HT

Variations
• Standard diameters D of the throttle (see drawing) 60 mm (2.36"), 68 mm (2.68")
• Possible diameters of the throttle 48 mm (1.89") to 68 mm (2.68")

Dimensions
• Length/width of mounting flange 111.7 mm (4.40")
• Hole spacing on the mounting flange 75 mm (2.95")
• Height of mounting flange 61 mm (2.40")
• Length including stepper motor 257.9 mm (10.15") (standard version)
  272.9 mm (10.74") (HT version)
• Width of stepper motor 56.4 mm (2.22")

Connections
• Stepper motor 10-pole military connector

Weight
• P/N 30.43.100-60, P/N 30.43.105-60 2.5 kg (5.51 lbs)
• P/N 30.43.100-68, P/N 30.43.105-68 2.6 kg (5.73 lbs)
• P/N 30.43.100-60-HT, P/N 30.43.105-60-HT 2.6 kg (5.73 lbs)
• P/N 30.43.100-68-HT, P/N 30.43.105-68-HT 2.7 kg (5.95 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 30.43.105-D and P/N 30.43.105-D-HT also correspond to the following drawings, but without the seal (O-ring, 82.14 mm x 3.53 mm [3.23” x 0.14”]) and the groove required for it.

P/N 30.43.100-D

P/N 30.43.100-D-HT