

Throttle Body with Integrated Stepper Motor

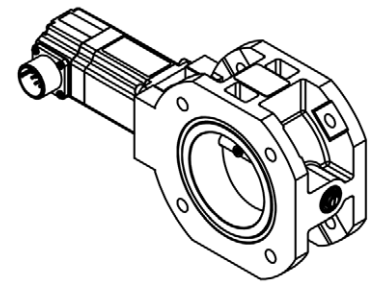
P/N 30.43.140-D, P/N 30.43.140-D-HT, P/N 30.43.145-D, P/N 30.43.145-D-HT

Variations

- Standard diameters D of the throttle (*see drawing*) 75 mm (2.95"), 80 mm (3.15"), 85 mm (3.35")
- Possible diameters of the throttle 73 mm (2.87") to 85 mm (3.35")

Dimensions

- Length/width of mounting flange 148.7 mm (5.85")
- Hole spacing on the mounting flange 95 mm (3.74")
- Height of mounting flange 76 mm (2.99")
- Length including stepper motor 294.9 mm (11.61") (*standard version*)
309.9 mm (12.20") (*HT version*)
- Width of stepper motor 56.4 mm (2.22")



Connections

- Stepper motor 10-pole military style connector

Weight

- P/N 30.43.140-75, P/N 30.43.145-75 3.8 kg (8.38 lbs)
- P/N 30.43.140-80, P/N 30.43.145-80 3.7 kg (8.16 lbs)
- P/N 30.43.140-85, P/N 30.43.145-85 3.6 kg (7.94 lbs)
- P/N 30.43.140-75-HT, P/N 30.43.145-75-HT 3.9 kg (8.60 lbs)
- P/N 30.43.140-80-HT, P/N 30.43.145-80-HT 3.8 kg (8.38 lbs)
- P/N 30.43.140-85-HT, P/N 30.43.145-85-HT 3.7 kg (8.16 lbs)

Mechanical Data

- Maximum rotation angle of the throttle body 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%

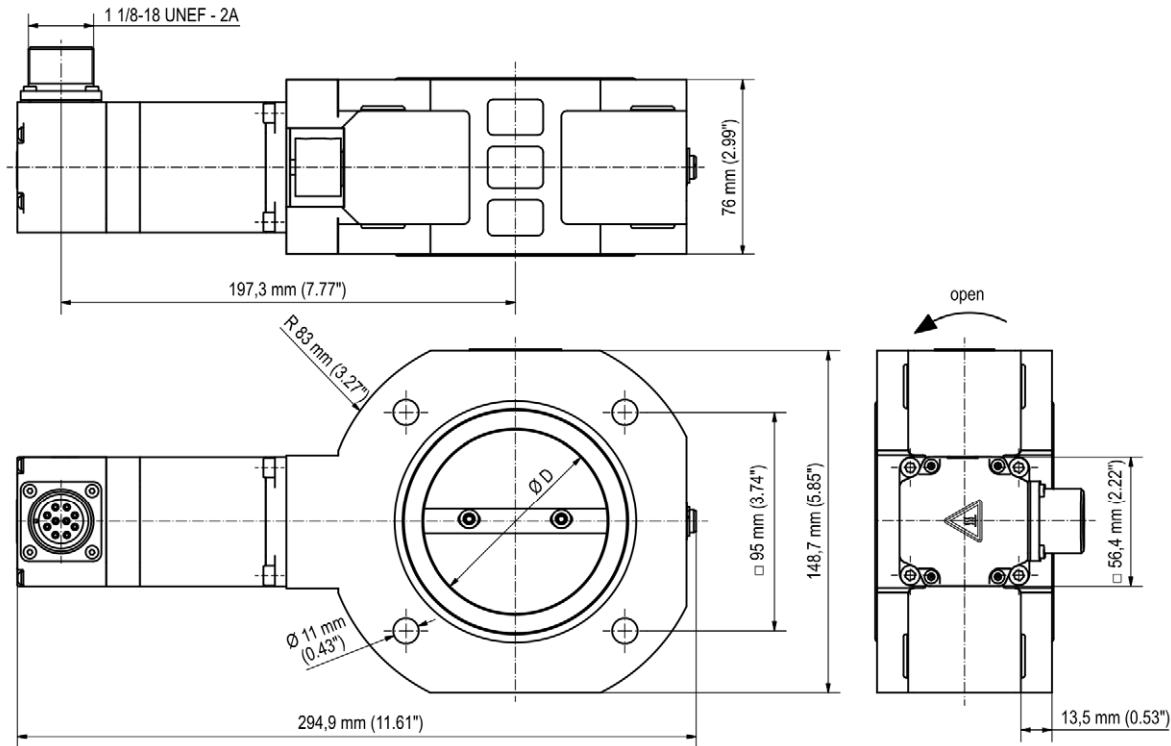
Characteristics of Stepper Motor

- Resolution 0,05625°
(in 1/16 microstep operation mode)
- Speed (when opening from 10% to 90%) 35 ms (*VariStep3*)
- Holding torque 1.7 Nm (1.25 lb-ft) (*VariStep3*)

Overview Drawings

P/N 30.43.145-D and P/N 30.43.145-D-HT also correspond to the following drawings, but without the seal (O-ring, 98.02 mm x 3.53 mm [3.86" x 0.14"]) and the groove required for it.

P/N 30.43.140-D



P/N 30.43.140-D-HT

