ACTUATECH
ACTUATOR TECHNOLOGY

# Actuator datasheet
# GS53F05F07

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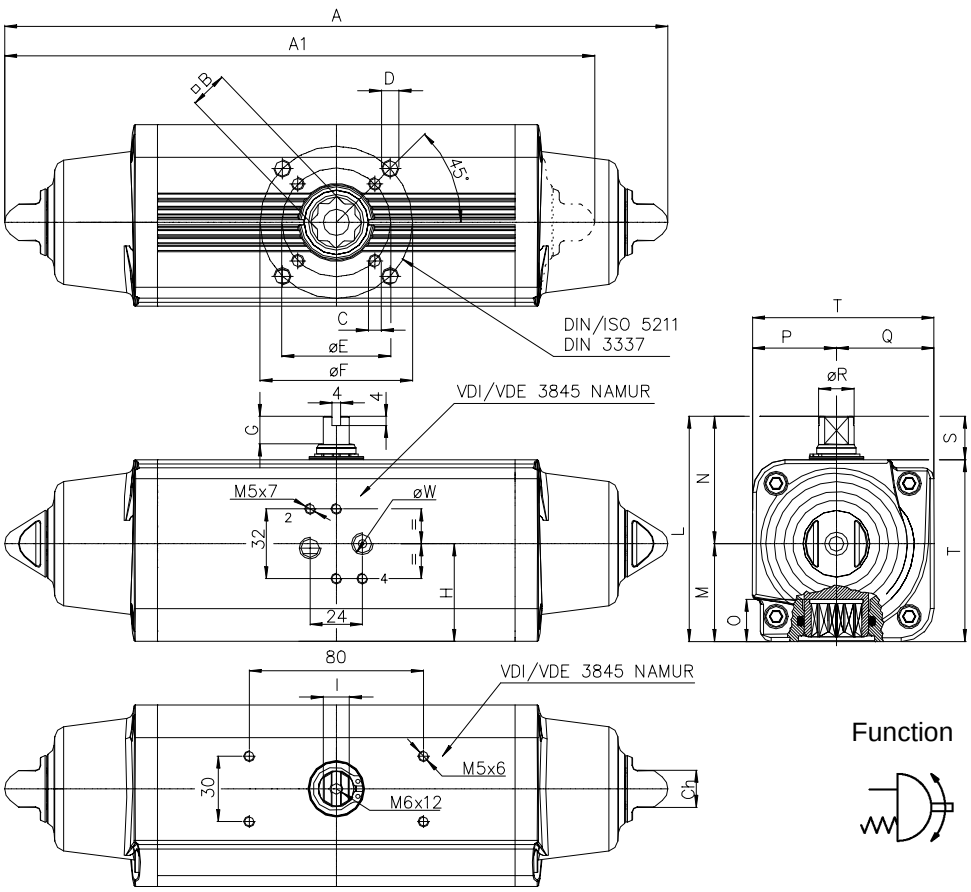
Older data sheets are invalid

**COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL**
**= ISO 9001 =**
**= ISO 14001 =**




Function



| Ref. | Dimensions (mm) |
|---|---|
| **Flange** | F05 - F07 |
| **C x depth** | M6x9 |
| **D x depth** | M8x12 |
| **E** | 50 |
| **F** | 70 |
| **B** | 17 |
| **O** | 19.3 |
| **A** | 304.3 |
| **G** | 13 |
| **H (bore)** | 44.8 |
| **I** | 12 |
| **L** | 103.3 |
| **M** | 44.8 |
| **N** | 58.5 |
| **P** | 38.5 |
| **Q** | 44.8 |
| **R** | 16.2 |
| **S** | 20 |
| **T** | 83.3 |
| **W** | 1/8" GAS |
| **Ch** | 17 |
| **Ancillaries Attachment** | AA1 |

**Spring return Actuators Normally Closed (N.C.) - Output Torque related to rotation angle , in Nm**
**( 0°valve closed 90° valve open )**

| Spring Torque | | | | Air pressure supply in bar | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2,4 | | | 2,8 | | | 3 | | | 3,5 | | | 4,2 | | | 5 | | | 5,6 | | | 6 | | | 7 | | | 8 | | |
| SIZE | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° | 0° | 50° | 90° |
| 2,8 | 17,5 | 13,0 | 26,5 | 20,2 | 9,3 | 11,2 | 26,5 | 13,0 | 17,5 | 29,6 | 14,9 | 20,6 | 37,5 | 19,5 | 28,5 | 48,5 | 26,0 | 39,5 | | | | | | | | | | | | | | | |
| 3,5 | 22,0 | 16,5 | 33,0 | | | | | | | 25,1 | 11,8 | 14,1 | 33,0 | 16,5 | 22,0 | 44,0 | 23,1 | 33,0 | 56,6 | 30,6 | 45,6 | 66,0 | 36,3 | 55,0 | | | | | | | | | |
| 4,2 | 26,0 | 19,5 | 40,0 | | | | | | | | | | 29,0 | 13,0 | 15,0 | 40,0 | 19,5 | 26,0 | 52,6 | 26,9 | 38,6 | 62,0 | 32,5 | 48,0 | 68,3 | 36,2 | 54,3 | 84,0 | 45,5 | 70,0 | 99,7 | 54,8 | 85,7 |
| 5,6 | 35,0 | 26,0 | 53,0 | | | | | | | | | | | | | | | | 43,6 | 20,4 | 25,6 | 53,0 | 26,0 | 35,0 | 59,3 | 29,7 | 41,3 | 75,0 | 39,0 | 57,0 | 90,7 | 48,3 | 72,7 |

## Technical Data

| Max Pressure | ** Min Pressure | Rotation | Stroke Adjustment | Screw Stroke Adjustment | *Moving time (sec.) | | Operating temperature (°C) |
|---|---|---|---|---|---|---|---|
| | | | | | Opening | Closing | |
| 8.4 bar | 2.4 bar | 92°<br>-1° +91° | 10 ° | For 1° drive<br>Need 1/2 turn<br>screw | 0.41 | 0.48 | Standard –20°C +80°C<br>High temperature –20°C +150°C<br>Low temperature –50°C +60°C |

| Weight Kg | Chamber Ø (mm) | Air volume L/cycle | Maximum flange torque values |
|---|---|---|---|
| 3 | 60 | 0.3 | F05 = 125 Nm<br>F07 = 250 Nm |

| Spring return Actuator with spring force 2.8 , is manufactured with only one spring cap and normal end cap (available only in standard version). | A1 | Weight Kg |
|---|---|---|
| | 270.7 | 2.6 |

*The moving time could vary on different operating and installation factors.
**Attention: for “High Temperature” and “Low Temperature” version, the Min Pressure is 3.5 bar.

**Operating Medium**
The operating medium shall have a dew point equal to – 20 °C or, to be at least, 10 °C below the ambient temperature (ISO 8573-1, Class 3).
The maximum particle size shall not exceed 40 µm (ISO 8573-1, Class 5).

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