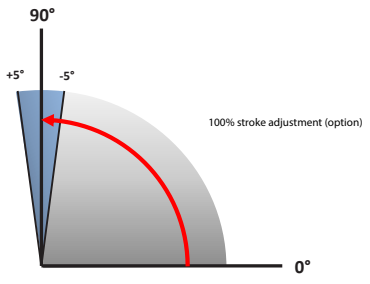
*Pneumatic actuators*

# PT...-125

| | | |
|---|---|---|
| **Design** | Pneumatic double-piston rotary actuator in rack and pinion design | |
| **Function** | Double- and single-acting | |
| **Material** | Stainless steel AISI 304 or AISI 316 | |
| **Temperature range** | Standard | -20°C...+80°C |
| | Low temperature version | -40°C...+80°C |
| | High temperature version | -10°C...+150°C |
| **ATEX marking** | CE Ex II 2 G Ex h IIC T6...T3 Gb<br>II 2 D Ex h IIIC 170°C Db | |
| **Control pressure** | 2...8 bar | |
| **Control media** | dry, filtered air or inert gases in respect of remaining oil-, dust and water-content according to DIN ISO 8573-1 / class 4, max.imum particle diameter 30µm, dew point min.imum 10°C below ambient temperature | |
| **Mounting position** | Any mounting position | |
| **Rotation angle** | 90°<br>Adjustable in switch position +/-5°, (optional 100% stroke adjustment) | |
| **Standards** | Interface actuator/ feedback-unit | VDI/VDE 3845 resp. NAMUR |
| | Interface actuator/ control media | VDI/VDE 3845 resp. NAMUR |
| | Interface actuator/ valve | ISO 5211 and DIN 3337 |




## Typecode

PT E - 4A - 125 / 090 . 12 - F07/F10 - V 22 - F

- **Type**
- **Function**
  - D: double-acting
  - E: single-acting
- **Stainless steel type**
  - 2A: AISI 304
  - 4A: AISI 316
- **Size**
- **Rotation angle**
  - Rotation angle in degree
- **Spring set**
- **ISO valve interface**
- **Stem connection**
  - V: Square acc. to ISO 5211 and DIN 3337
- **Stem connection dimensions**
  - Dimension in mm
- **Mounting direction**
  - E: transversal to pipe, rotation sense CW
  - F: parallel to pipe, rotation sense CW
  - G: transversal to pipe, rotation sense CCW
  - H: parallel to pipe, rotation sense CCW



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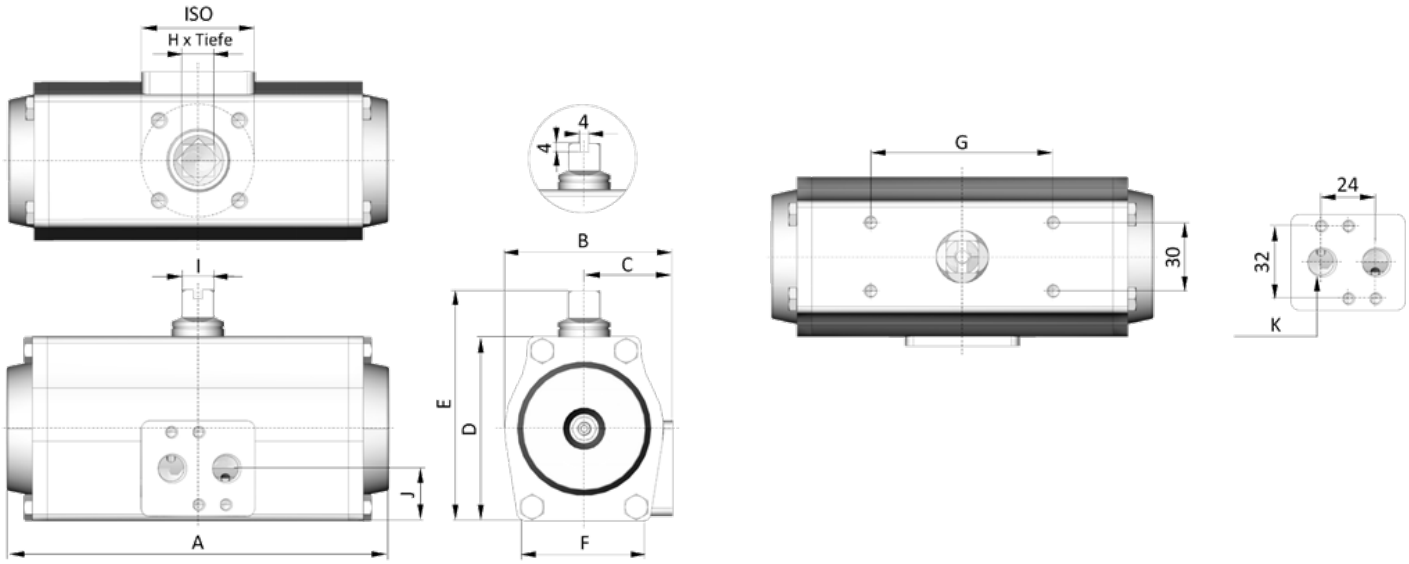
## Dimensions




## Dimension table

| A | B | C | D | E | F | G | ISO | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 284 | 140 | 72 | 155 | 185 | 96 | 130 | F07 + F10 | 22x26 | 22 | 28 | G1/4" |

## Weight,volume

| | | |
|---|---|---|
| Weight (kg) | double-acting | 18 |
| | single-acting | 19,2 |

| | | |
|---|---|---|
| Volume (l) | double-acting | 3,3 |
| | single-acting | 1,5 |

## Torques double-acting

| Control pressure in bar (g) | 2 | 2,5 | 3 | 3,5 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 7,5 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Torque in Nm | 103 | 128 | 154 | 180 | 205 | 231 | 256 | 282 | 308 | 334 | 359 | 385 | 410 |

## Torques single-acting

| | | Torque spring stroke in Nm | | Control pressure in bar (g) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3 | | 3,5 | | 4 | | 4,5 | | 5 | | 5,5 | | 6 | | 7 | | 8 | |
| Spring set | | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. |
| Torque in Nm | 5 | 78,4 | 52,4 | 99,0 | 71,5 | | | | | | | | | | | | | | | | |
| | 6 | 94,1 | 62,8 | 87,9 | 55,0 | 113,3 | 80,5 | | | | | | | | | | | | | | |
| | 7 | 109,7 | 73,3 | 76,8 | 38,5 | 102,3 | 64,0 | 127,8 | 89,5 | | | | | | | | | | | | |
| | 8 | 125,4 | 83,8 | 65,8 | 22,0 | 91,3 | 47,5 | 116,8 | 73,0 | 142,3 | 98,5 | 167,8 | 124,0 | | | | | | | | |
| | 9 | 141,1 | 94,2 | | | 80,3 | 31,0 | 105,8 | 56,5 | 131,3 | 82,0 | 156,8 | 107,5 | 182,8 | 133,5 | 208,8 | 159,5 | | | | |
| | 10 | 156,8 | 104,7 | | | | | 94,8 | 40,0 | 120,3 | 65,5 | 145,8 | 91,0 | 171,8 | 117,0 | 197,8 | 143,0 | 248,8 | 194,0 | 299,8 | 245,0 |
| | 11 | 172,4 | 115,2 | | | | | | | 108,8 | 48,5 | 134,8 | 74,5 | 160,8 | 100,5 | 186,8 | 126,5 | 237,8 | 177,5 | 288,8 | 228,5 |
| | 12 | 188,1 | 125,7 | | | | | | | | | 123,7 | 58,0 | 149,7 | 84,0 | 175,7 | 110,0 | 226,7 | 161,0 | 277,7 | 212,0 |