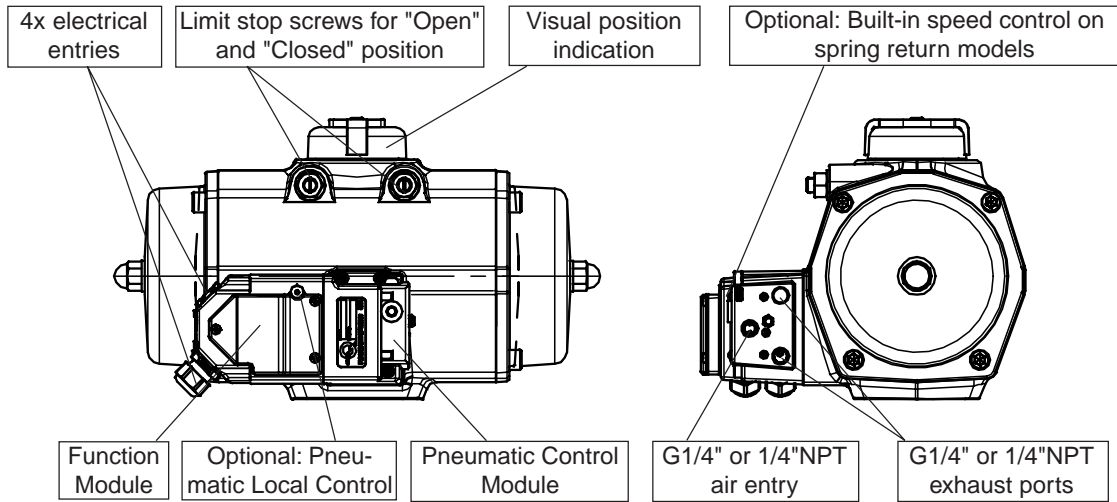


Technical details of FieldQ valve actuator



Specification actuator:

Pressure : Double acting - 2 to 8 bar g / 30 to 120psig
: Spring return - 6 to 8 bar g / 87 to 120psig with maximum spring set.
- 3 to 8 bar g / 43 to 120psig reduced spring set.

PED : All actuators comply to PED 97/23/EC

Torque : 40 to 1600 Nm. nominal torque
: 300 to 11000 In.lb. nominal torque (see sheets 1.602.01, 1.602.02 or 1.602.03).

Operating media : Air or inert gasses.
: Air quality according ISO 8573-1 7-5-4.
: Dew point 10 K bellow operating temperature.
: For subzero applications take appropriate measures.

Temperature : -20° to +80°C / -4° to 176°F

Lubrication : Factory lubricated for the normal life of the actuator.

Construction : Suitable for indoor and outdoor installation.

Protection : Housing : Anodized with epoxy primer and two component polyurethane top coating.
: Pistons : Chromitized

Function modules

Executions : Smart, AS-Interface Foundation™
Fieldbus Profibus DP or PA

Voltages : 24VDC, 115VAC, 230VAC or according bus communication system

Option : Pneumatic Local Control

Specifications : See sheets 1.604.xx

Specification Pneumatic Control Module

Function : Double or Single Acting (spring return)

Actuator range : Q40 to Q1600

Enclosure : IP65

Air entry : G1/4" or 1/4"NPT

Exhaust ports : G1/4" or 1/4"NPT

"Breather" function : Standard for single acting actuators

Speed control : Optional

Material:

- Body : Aluminium
- Valve housing : 30% glass-filled Nylon
- Valve seats : NBR
- Membrane : Reinforced NBR
- Finish : Epoxy primer and two component polyurethane top coating

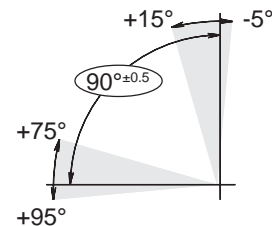
Rotation

Factory set : 90°±0.5 Adjustable range: -5° to +15° and +75° to 95°

: For more info on failure modes see 1.606.02

: Clockwise fail action, see sheet 1.606.04 for optional fail actions (assembly codes).

: See 1.606.03 for other double acting assembly codes



| ACTUATOR TYPE | | Q40 | Q100 | Q200 | Q350 | Q600 | Q950 | Q1600 |
|-----------------------------------|---------------------|------|------|------|------|------|------|-------|
| Bore | mm. | 70 | 91 | 110 | 145 | 175 | 200 | 230 |
| | inch | 2.76 | 3.58 | 4.33 | 5.71 | 6.89 | 7.87 | 9.06 |
| Stroke | mm. | 18.8 | 25.1 | 37.7 | 37.7 | 44.0 | 50.3 | 62.8 |
| | inch | 0.74 | 0.99 | 1.48 | 1.48 | 1.73 | 1.98 | 2.47 |
| Weight: Double acting | kg. | 1.8 | 3.1 | 5.8 | 10.4 | 19 | 26 | 43 |
| | lb. | 4.0 | 6.8 | 13 | 23 | 43 | 58 | 94 |
| Spring return | kg. | 2.4 | 4.6 | 9.1 | 17 | 28 | 39 | 66 |
| | lb. | 5.3 | 10 | 20 | 37 | 61 | 85 | 145 |
| Operating time | sec. | 0.7 | 1.2 | 2.3 | 3.6 | 4.5 | 5.4 | 6.9 |
| Air consumption per stroke | | | | | | | | |
| at 1 atm (litres) | Central air chamber | 0.16 | 0.35 | 0.8 | 1.8 | 2.9 | 4.7 | 7.3 |
| | Endcap air chambers | 0.22 | 0.49 | 1 | 1.9 | 3.1 | 4.9 | 8.0 |
| at 1 atm (cu. in.) | Central air chamber | 10 | 21 | 49 | 110 | 177 | 287 | 445 |
| | Endcap air chambers | 13 | 30 | 61 | 116 | 189 | 299 | 488 |