

Pneumatic actuators type AS and ASHW

Single acting. For 2 & 3-way valves type G/L/M/S 2FM-T & G/L/M/S 3FM-T

0-6.5.14-B

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AS



ADHW (with hand wheel)

TECHNICAL DATA

Materials:

| | |
|------------|----------------------|
| - Body | Aluminium, anodized |
| - Piston | Aluminium alloy |
| - End Caps | Aluminium, anodized |
| - Shaft | Steel, AISI 304 (A2) |
| - O-rings | NBR (rubber) |
| - Springs | Pre-compressed |

Actuat. flange ISO 5211

Air supply Dry or lubricated filtered compressed air, non aggressive gases

Temperature -20 °C to +80 °C

Feeding pressure 3-7 bar continuous

Rotation range 90° ± 5°

Hand wheel (option) Hand wheel (HW) integrated in the end cap of the actuator is optional

APPLICATIONS

The AS actuators are made according to the Scotch Yoke principle, which is characteristic for its high torque when required - at the beginning and end of each operation. This increases safety and reduces the energy consumption.

QUALITY

The actuators are made under strict quality control and comply with all international standard requirements. The AS actuators are CE-marked according to PED and ATEX. Simple, robust design and easy assembly according to ISO 5211.

FEATURES

- Increased torque where required. The Scotch Yoke actuator gives approx. 50% higher starting and closing torque (0°) compared to the rack and pinion actuator
- Compact measures. Approx. 30% smaller than rack and pinion actuators
- Low air consumption. Approx. 30% less than rack and pinion actuators
- Low maintenance, long life
- Good regulating features. No play in force transmission and low friction because the transmission passes over bearings
- Favourable force transmission, gives favourable action in the regulation area. This provides lower turning speed when approaching the end positions
- The actuators have low weight and small external dimensions for their torque output
- Fail safe function in case of power loss

RECOMMENDED ACTUATOR TYPES FOR G2/G3FM-TR and G2/G3FM-TL VALVES

| DN | ASHW & AS for valve with inlet pressure P1 ≤ 5bar | ASHW & AS for valve with inlet pressure P1 ≤ 10bar | ASHW & AS for valve with inlet pressure P1 ≤ 16bar | ASHW & AS for valve with inlet pressure P1 ≤ 25bar |
|-----|---|--|--|--|
| 65 | 65 | 65 | 100 | 100 |
| 80 | 65 | 100 | 100 | 100 |
| 100 | 100 | 100 | 100 | 125 |
| 125 | 100 | 125 | 125 | 125 |
| 150 | 125 | 125 | 125 | - |
| 200 | 125 | 140 | 140 | - |
| 250 | 140 | 160 | 160 | - |
| 300 | 160 | 160 | 210 | - |
| 350 | 210 | 210 | - | - |
| 400 | 210 | 250 | - | - |
| 450 | 210 | 250 | - | - |
| 500 | 250 | 300 | - | - |
| 550 | 250 | 300 | - | - |
| 600 | 250 | 300 | - | - |
| 800 | - | - | - | - |

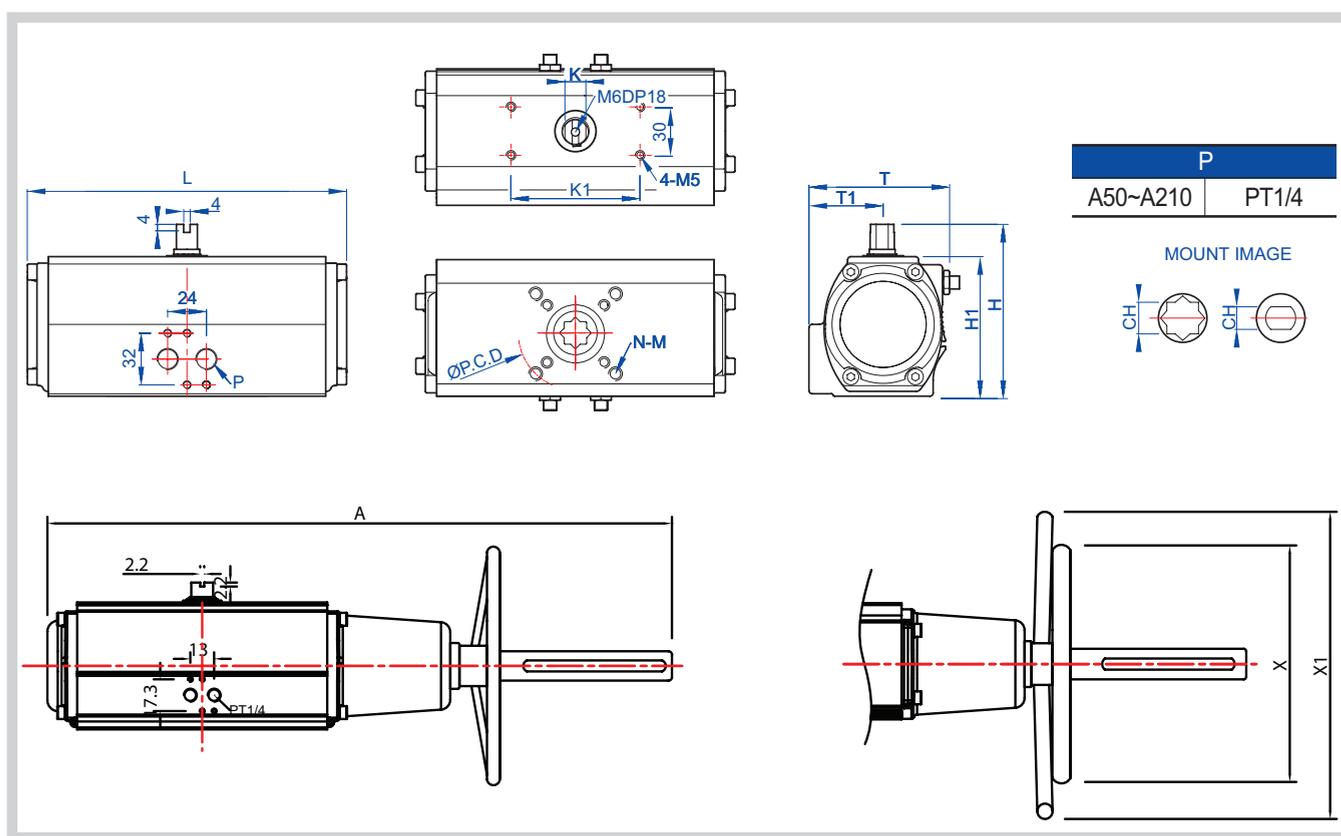
Subject to change without notice.

Other relevant data sheets for AS actuators:

- 2-way valves G2FM-T
- 3-way valves G3FM-T
- Positioners
- Filter regulators
- Controller
- Sensor PT100
- Pneumatic controller S80

- 0.2.5.05.01
- 0.2.6.02, 0.2.6.03
- 0.6.6.01, 0.6.6.02
- 0.6.8.01
- ER2000 0.4.6.01
- 0.4.7.01
- 0.6.7.01

DIMENSION SKETCH



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| Type | K1 | ISO | P.C.D (Ø) | N-G | K | L | A* | X*/X1* | T | T1 | H | H1 | CH | DTH | Weight kg |
|-------|-----|---------|-----------|-----------|----|-----|------|---------|-----|------|-----|-----|-------|-----|-----------|
| AS65 | 80 | F05/F07 | 50/70 | 4-M6/M8 | 13 | 312 | 512 | 202 | 85 | 46 | 107 | 87 | 14*14 | 17 | 3.4 |
| AS100 | 80 | F07/F10 | 70/102 | 4-M8/M10 | 22 | 500 | 763 | 200/332 | 129 | 61.5 | 148 | 128 | 22*22 | 26 | 10.6 |
| AS125 | 80 | F07/F10 | 70/102 | 4-M8/M10 | 22 | 606 | 869 | 200/332 | 151 | 71.5 | 174 | 154 | 22*22 | 26 | 17.9 |
| AS140 | 80 | F10/F12 | 102/125 | 4-M10/M12 | 24 | 682 | 945 | 300/440 | 164 | 77 | 192 | 172 | 27*27 | 30 | 25.2 |
| | | | | | | | | | | | | | 22*22 | 26 | |
| AS160 | 80 | F14 | 140 | 4-M16 | 32 | 781 | 1085 | 300/440 | 188 | 89 | 216 | 196 | 36*36 | 30 | 36.8 |
| | | F10/F12 | 102/125 | 4-M10/M12 | | | | | | | | | 27*27 | | |
| AS210 | 130 | F16 | 165 | 4-M;20 | 36 | 982 | 1325 | 300/584 | 231 | 115 | 284 | 254 | 46*46 | 60 | 76.9 |

* HW option