

Pneumatic actuators type AD with declutch hand wheel

Double acting. For 2 & 3-way valves type G/L/M/S 2FM-T & G/L/M/S 3FM-T appendix to 0-6.5.13-B



AD

APPLICATIONS

The AD 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 AD 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
- If air supply is lost the actuator will remain in its last position

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
	Cartridges, epoxy painted
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	De-clutch Hand wheel (HW)

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

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

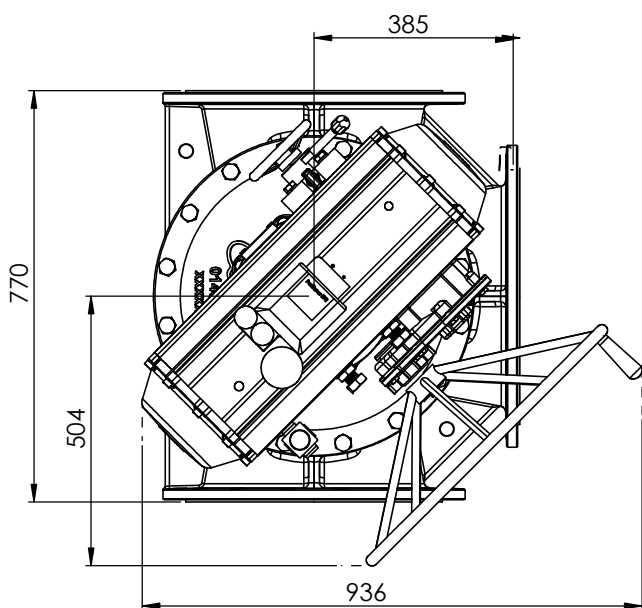
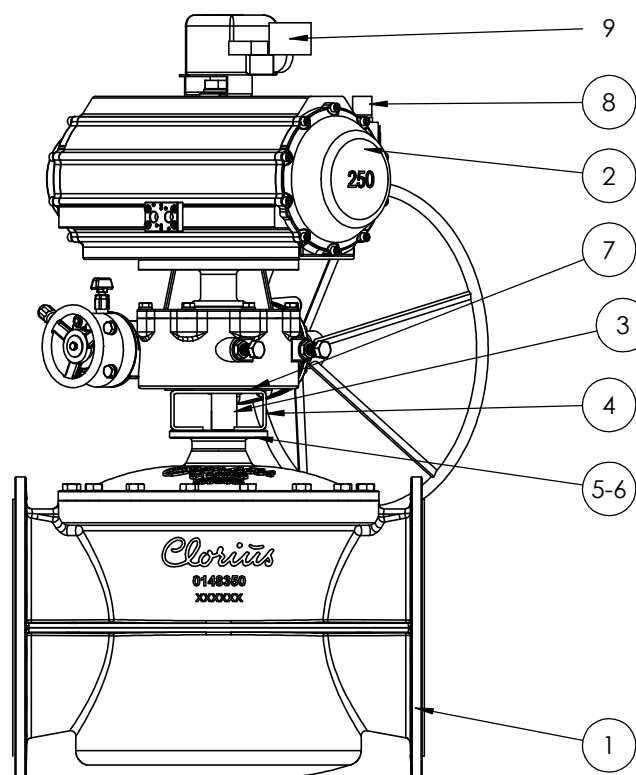
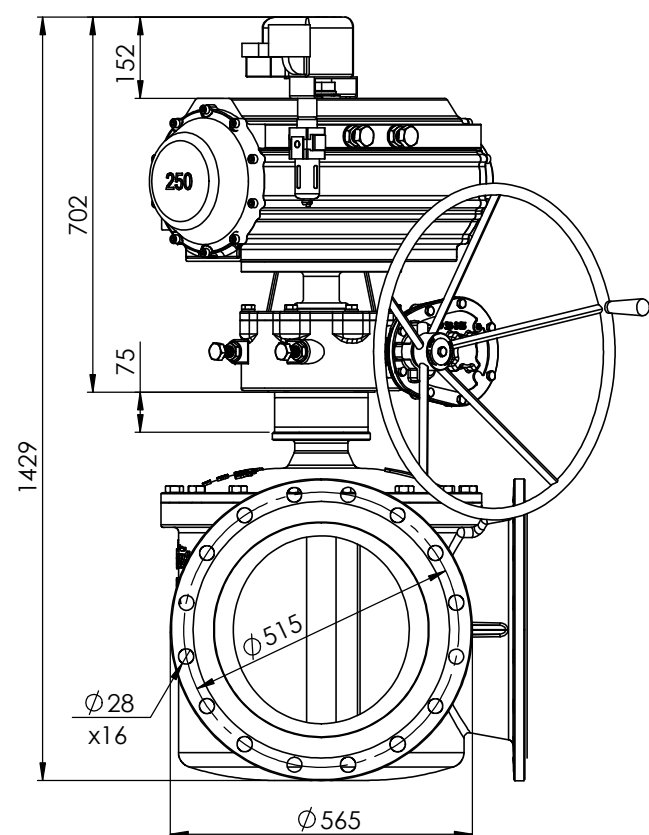
Subject to change without notice.

Other relevant data sheets for AD actuators:

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

- G2FM-T 0.2.5.05.01
- G3FM-T 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 AD250 De-clutch Hand Wheel Mounted on DN400 G3FMT



Pos.	DESCRIPTION
1	Valve DN400 G3FMT
2	Pneumatic Actuator AD250 + Gear box
3	Bushing 27 to 46
4	Bracket
5	Hexagon Head Screw M16x40
6	Nut M16 DIN 934
7	Hexagon Head Screw M20x45
8	Filter Regulator
9	Pneumatic Positioner EPR