Pneumatic actuators type AD and ADHW

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

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AD



ADHW (with hand wheel)

TECHNICAL DATA

Materials:

- Body - Piston
- End Caps
- Shaft
- O-rings
- Springs

Actuat. flange Air supply

Temperature Feeding pressure Rotation range Hand wheel (option)

Aluminium, anodized Aluminium allov Aluminium, anodized Steel, AISI 304 (A2) NBR (rubber) Pre-compressed Cartridges, epoxy painted ISO 5211 Dry or lubricated filtered compressed air, non aggressive gases -20 ºC to +80 ºC 3-7 bar continuous 900 + 50 Hand wheel (HW) integrated in the end cap of

the actuator is optional

Subject to change without notice.

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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

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

DN	ADHW for valve with inlet pres- sure P1≤5bar	ADHW for valve with inlet pres- sure P1≤10bar	ADHW for valve with inlet pres- sure P1≤16bar	ADHW for valve with inlet pres- sure 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	-	-
500 550	250	300	-	-
600	300	300	-	-
800	300	-	-	-

Sizing at 5 bar control air. For type AD and valve type G3FM-TM please refer to page 28

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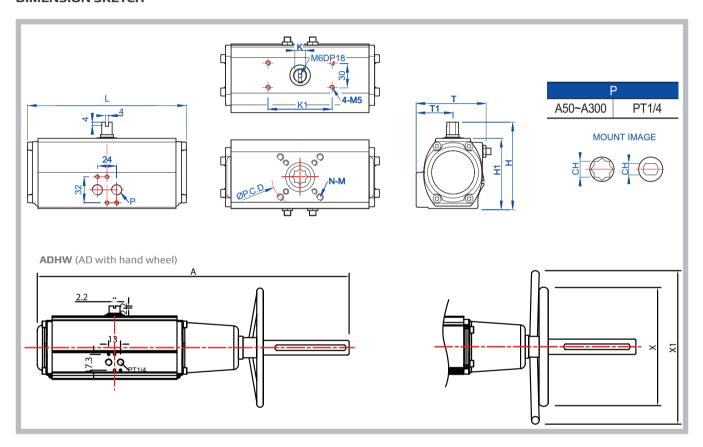
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Other relevant data sheets for AD actuators:

- 2-way valves
- 3-way valves
- Positioners
- Filter regulators
- Controller
- Sensor PT100
- Pneumatic controller 580

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



Туре	К1	ISO	P.C.D (Ø)	N-G	К	L	A *	X*/X1*	Т	T1	н	Н1	СН	DTH	Weight kg
AD65	80	F07	70	4-M8	13	198	456	202	85	46	107	87	14*14	17	2.7
AD100	80	F07/F10	70/102	4-M8/M10	22	311	659	200/332	129	61.5	148	128	22*22	26	7.5
AD125	80	F07/F10	70/102	4-M8/M10	22	390	761	200/332	151	71.5	174	154	22*22	26	11.6
AD140 8	00	80 F10/F12	102/125	4-M10/M12	24	431	820	200/440	164	77	192	172	27*27	30	18.9
	80							300/440					22*22	26	
AD160 80	0.0	F14	140	4-M16	32	506	948	300/440	188	89	216	196	36*36	30	26.3
	80	F10/F12	102/125	4-M10/M12									27*27		
AD210	130	F16	165	4-M20	36	605	1137	300/584	231	115	284	254	46*46	60	47.2
AD250	130	F16	165	4-M20	36	755	1208	300/584	301	152	335	305	46*46	60	67.8
AD300	130	F16/F25	165/254	4-M40/8-M16	36	900	1444	300/584	360	170	408	378	55*55	60	167

^{*} HW option