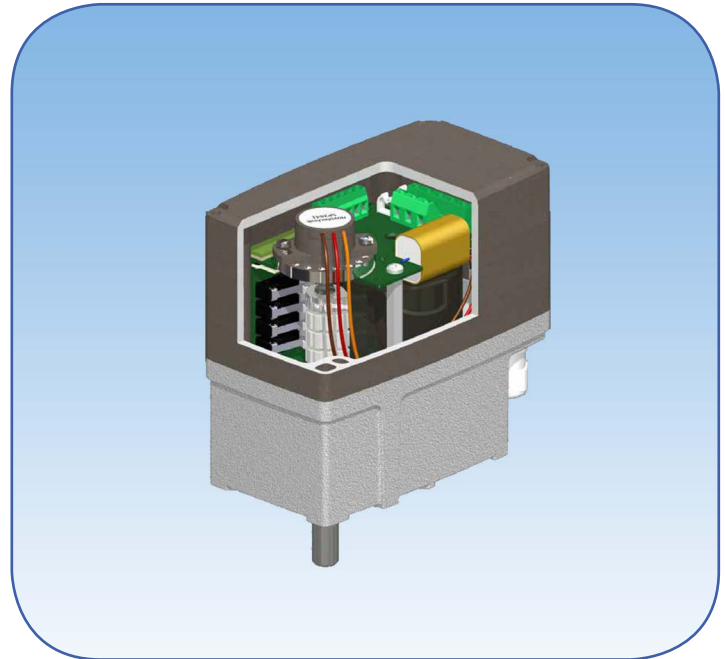


Electric actuator series AT/AN

Electric actuators AT / AN are applied normally by both domestic and industrial combustion plants and pilot linear control valves, butterfly valve, dampers or any other equipment with regulates flow which require angular positioning.

These actuator are piloted by brushless DC motors or synchronous motors and have the great advantage to be very precise and highly reliable.

Actuators AT / AN have the **CE** certificate and the EMC 2004/10/EC certificate.



TECHNICAL FEATURES

Housing and cover	Die casted aluminium and polycarbonate	Power supply	230V, 115V, 24V ac e 24V dc
Nominal torque	5 ÷ 120 Nm	Power consumption	4 - 7 VA
Rotation time	0,8 ÷ 210 s	Input signal	4÷20 mA o 0÷10V dc
Rotation angle	Standard 90°	Output signal	4÷20 mA o 0÷10V dc
On request	10 ÷ 330°, multiturn	Working ED	100%
Shaft	Ø 12-14 mm	End/Aux switches rating	0,5 A / 48V dc e ac
Installation	in any position	IP protection	IP65, IP67 on request
Connection holes	F03, F05, F07 - ISO 5211	Cable gland	3 x M16x1,5
Ambient temperature	-15 ÷ +60 °C		

FEATURES

- Compact and robust construction, suitable for industrial application
- Easy programmable rotation angle
- Multi voltage power supply also in d.c. with model AT
- Very accurate and precise regulation
- Control station auto/man available on request
- Bus control on request
- Characterized curve programmable through software
- ATEX zone 1 and 2 available
- Option of spring return function, fail-safe and linear movement
- Wide variety of accessories available

Actuator type

- AT** = Electric actuator AT
- AN** = Electric actuator AN

Size

- S** = Small
- M** = Medium
- L** = Large

Models

- 05-15** = Select from the tables reported in the next pages

Power supply *(+ 6% - 10% / 50 - 60 Hz)

- A** = 24V ac \pm 10% / 50 - 60 Hz
- B** = 115V ac + 60% - 10% / 50 - 60 Hz
- C** = 230Vac + 60% - 10% / 50 - 60 Hz
- E** = 24V dc
- X** = from 85 - 265V 50 - 60 Hz

Potentiometer

- 00** = no potentiometer
- 13** = 1 Kohm

Auxiliary micro-switches

- 0** = No auxiliary micro-switches
- 2** = 2 adjustable auxiliary switches
- 4** = 4 adjustable auxiliary switches

Accessories

- S** = control station AUTO/MAN and Open/Close/Stop
- E8** = Input / Output signal 4-20 mA
- E7** = Input / Output signal 0-10V dc

AT

M

05-15

E

13

2

S

ATS

Model	Torque in Nm	Rotation s / 90"
S 05 - 02	5	2
S 05 - 03	5	3
S 05 - 06	5	6
S 05 - 15	5	15
S 05 - 30	5	30
S 05 - 60	5	60
S 10 - 03	10	3
S 10 - 06	10	6
S 10 - 15	10	15
S 10 - 30	10	30
S 10 - 60	10	60
S 15 - 03	15	3
S 15 - 06	15	6
S 15 - 15	15	15
S 15 - 30	15	30
S 15 - 60	15	60
S 20 - 06	20	6
S 20 - 10	20	10
S 20 - 15	20	15
S 20 - 30	20	30
S 20 - 60	20	60

ATM

Model	Torque in Nm	Rotation s / 90"
M 30 - 08	30	8
M 30 - 12	30	12
M 30 - 15	30	15
M 30 - 30	30	30
M 30 - 60	30	60
M 30 - 120	30	120
M 40 - 12	40	12
M 40 - 15	40	15
M 40 - 30	40	30
M 40 - 60	40	60
M 40 - 120	40	120
M 50 - 15	50	15
M 50 - 20	50	20
M 50 - 25	50	25
M 50 - 30	50	30
M 50 - 60	50	60
M 50 - 120	50	120
M 60 - 20	60	20
M 60 - 25	60	25
M 60 - 30	60	30
M 60 - 60	60	60
M 60 - 120	60	120

ATL

Model	Torque in Nm	Rotation s / 90"
L 80 - 25	80	25
L 80 - 30	80	30
L 80 - 45	80	45
L 80 - 60	80	60
L 80 - 90	80	90
L 80 - 120	80	120
L 80 - 150	80	150
L 80 - 210	80	210
L 100 - 25	100	25
L 100 - 30	100	30
L 100 - 45	100	45
L 100 - 60	100	60
L 100 - 90	100	90
L 100 - 120	100	120
L 100 - 150	100	150
L 100 - 210	100	210
L 120 - 42	120	42
L 120 - 60	120	60
L 120 - 90	120	90
L 120 - 120	120	120
L 120 - 150	120	150
L 120 - 210	120	210

ANS

Model	AC	
	Torque in Nm	Rotation s / 90"
S 05 - 008	5	0.8(0.7)
S 05 - 03	5	3(2.5)
S 05 - 06	5	6(5)
S 05 - 15	5	15(13)
S 05 - 30	5	30(25)
S 05 - 60	5	60(50)
S 10 - 008	10	0.8(0.7)
S 10 - 03	10	3(2.5)
S 10 - 06	10	6(5)
S 10 - 15	10	15(13)
S 10 - 30	10	30(25)
S 10 - 60	10	60(50)
S 15 - 03	15	3(2.5)
S 15 - 06	15	6(5)
S 15 - 15	15	15(13)
S 15 - 30	15	30(25)
S 15 - 60	15	60(50)
S 20 - 02	20	1.5(1.3)
S 20 - 06	20	6(5)
S 20 - 15	20	15(13)
S 20 - 30	20	30(25)
S 20 - 60	20	60(50)

Model	DC	
	Torque in Nm	Rotation s / 90"
S - DC 05 - 03	5	3
S - DC 05 - 06	5	6
S - DC 05 - 10	5	10
S - DC 05 - 15	5	15
S - DC 05 - 30	5	30
S - DC 05 - 45	5	45
S - DC 10 - 03	10	3
S - DC 10 - 06	10	6
S - DC 10 - 10	10	10
S - DC 10 - 15	10	15
S - DC 10 - 30	10	30
S - DC 10 - 45	10	45
S - DC 15 - 06	15	6
S - DC 15 - 10	15	10
S - DC 15 - 15	15	15
S - DC 15 - 30	15	30
S - DC 15 - 45	15	45
S - DC 20 - 06	20	6
S - DC 20 - 10	20	10
S - DC 20 - 15	20	15
S - DC 20 - 30	20	30
S - DC 20 - 45	20	45

ANM

Model	AC	
	Torque in Nm	Rotation s / 90"
M 25 - 03	30	3 (2.5)
M 30 - 08	30	8 (7)
M 30 - 12	30	12 (10)
M 30 - 30	30	30 (25)
M 30 - 60	30	60 (50)
M 30 - 120	30	120 (100)
M 40 - 03	40	3 (2.5)
M 40 - 12	40	12 (10)
M 40 - 30	40	30 (25)
M 40 - 60	40	60 (50)
M 40 - 120	40	120 (100)
M 50 - 12	50	12 (10)
M 50 - 20	50	20 (17)
M 50 - 50	50	50 (42)
M 50 - 90	50	90 (75)
M 50 - 180	50	180 (150)
M 60 - 05	60	5 (4.2)
M 60 - 20	60	20 (17)
M 60 - 50	60	50 (42)
M 60 - 90	60	90 (75)
M 60 - 180	60	180 (150)

Model	DC	
	Torque in Nm	Rotation s / 90"
M - DC 30 - 07	30	7
M - DC 30 - 10	30	10
M - DC 30 - 15	30	15
M - DC 30 - 30	30	30
M - DC 30 - 60	30	60
M - DC 30 - 100	30	100
M - DC 40 - 10	40	10
M - DC 40 - 15	40	15
M - DC 40 - 30	40	30
M - DC 40 - 60	40	60
M - DC 40 - 100	40	100
M - DC 50 - 20	50	20
M - DC 50 - 30	50	30
M - DC 50 - 60	50	60
M - DC 50 - 100	50	100
M - DC 60 - 20	60	20
M - DC 60 - 30	60	30
M - DC 60 - 60	60	60
M - DC 60 - 100	60	100

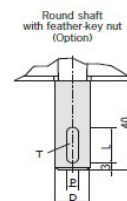
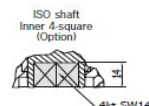
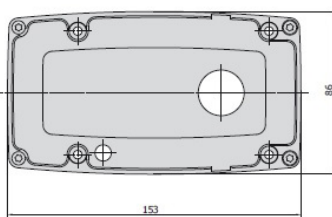
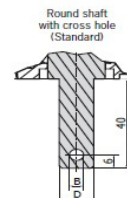
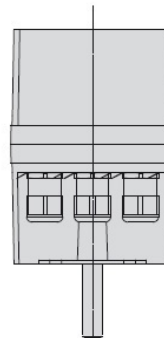
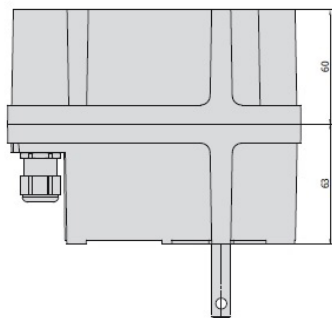
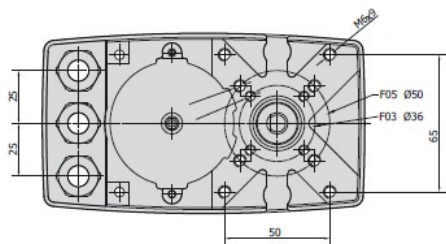
ANL

Model	AC	
	Torque in Nm	Rotation s / 90"
L 70 - 06	70	6 (5)
L 80 - 10	80	10 (8)
L 80 - 15	80	15 (13)
L 80 - 25	80	25 (21)
L 80 - 45	80	45 (38)
L 80 - 60	80	60 (50)
L 80 - 80	80	80 (67)
L 80 - 120	80	210 (175)
L 100 - 10	100	10 (8)
L 100 - 15	100	15 (13)
L 100 - 25	100	25 (21)
L 100 - 40	100	40 (33)
L 100 - 80	100	80 (67)
L 100 - 210	100	210 (175)
L 120 - 10	120	10 (8)
L 120 - 15	120	15 (13)
L 120 - 25	120	25 (21)
L 120 - 40	120	40 (33)
L 120 - 80	120	80 (67)
L 120 - 110	120	110 (92)
L 120 - 210	120	210 (175)

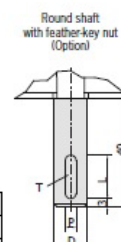
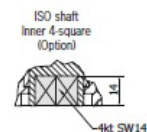
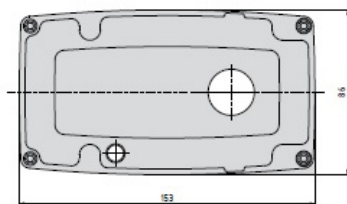
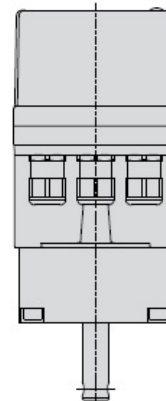
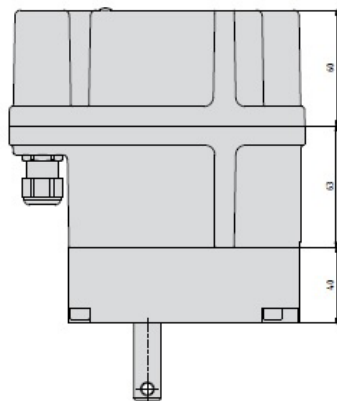
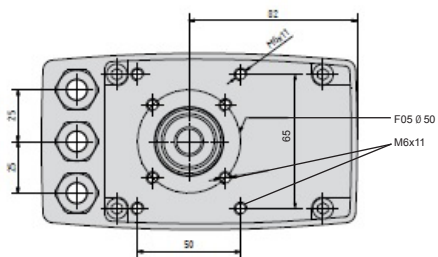
Model	DC	
	Torque in Nm	Rotation s / 90"
L - DC 80 - 25	80	25
L - DC 80 - 30	80	30
L - DC 80 - 45	80	45
L - DC 80 - 60	80	60
L - DC 100 - 30	100	30
L - DC 100 - 45	100	45
L - DC 100 - 60	100	60
L - DC 100 - 70	100	70
L - DC 120 - 30	120	30
L - DC 120 - 40	120	40
L - DC 120 - 45	120	45
L - DC 120 - 60	120	60
L - DC 120 - 70	120	70

DIMENSIONS

ATS - ANS

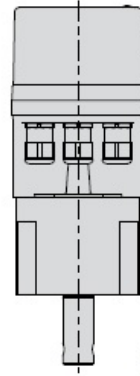
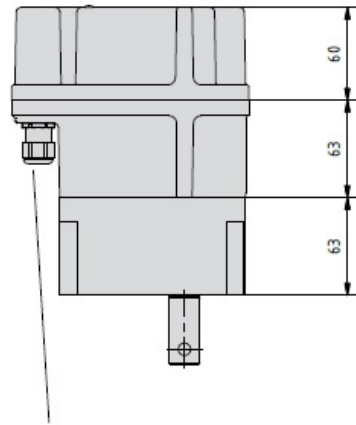
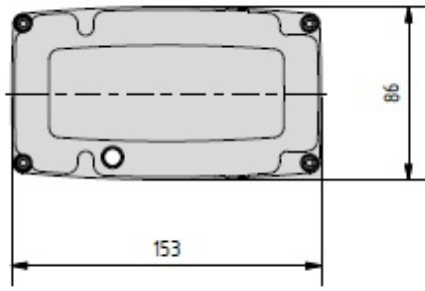


ATM - ANM



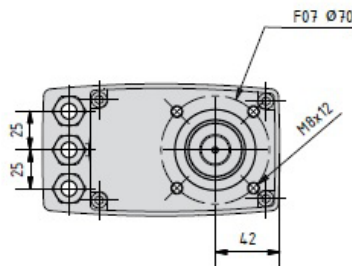
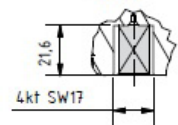
Type	D	B	L	P	T
30 to 40 Nm	12	5	16	4	2.5
50 to 60 Nm	14	6	22	5	3

ATL - ANL

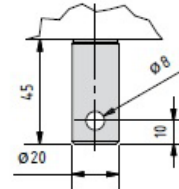


Cable glands optional
(Standard=Blind plugs)

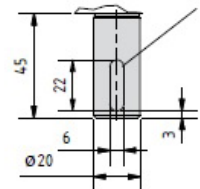
ISO shaft
Inner L-square
(Option)



Round shaft
with cross hole
(Standard)



Round shaft
with feather key nut
(Option)



ATEX VERSION



ZONE 1

ATEX Ex II 2G Ex d IIC T6 Gb

- Applicable in zone 1 and zone 2
- Applicable categories 2G and 3G
- Pressurized encapsulation "d"
- Applicable for gases with increased flame transmission capacity "C"
- Highest temperature class T6
- For gases with ignition temperature > 85°C

ZONE 2

ATEX II 3G Ex ec IIC T4 Gc X

ATEX II 3D Ex tc IIIC T80°C Dc X

- Applicable in zone 2 and 22
- Same dimensions like standard version
- Highly safety level tested in production

All the reported data are subject to be changed without notice.

form 180227