



AIR TORQUE®

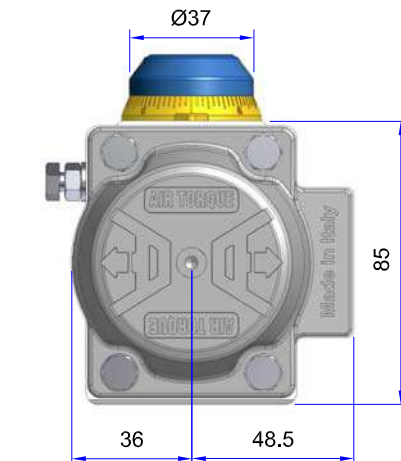
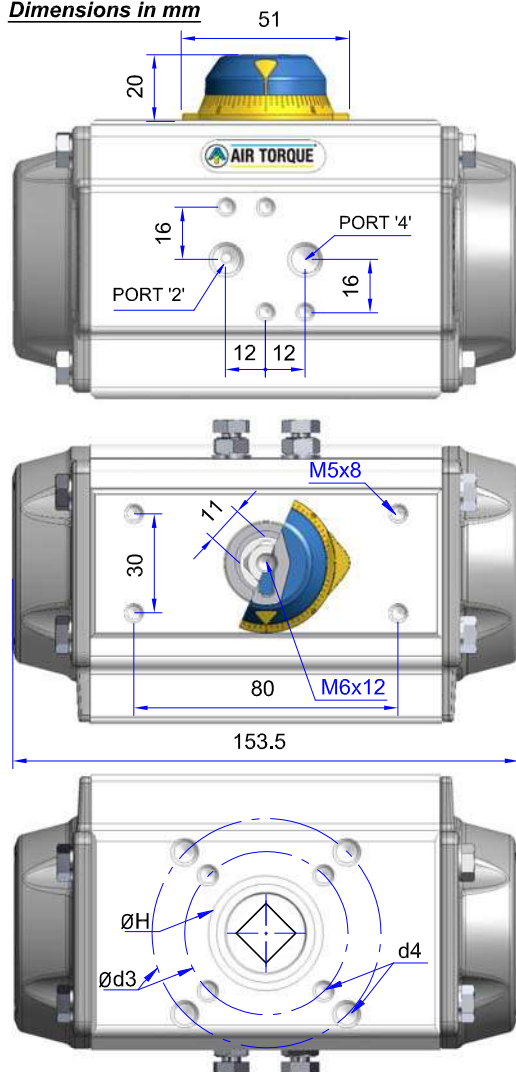
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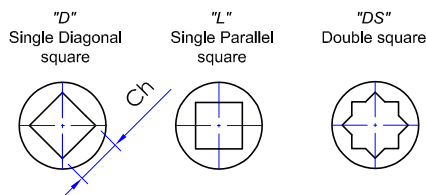
Model AT101 U
D/S - 90°

T.D.S. n° **AT101U-DM**
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Dimensions in mm



Optional Square:



Output Torque

OUTPUT TORQUE FOR DOUBLE ACTING IN Nm												APPROX. WEIGHT (Kg)
Pressure	2,5 bar 0° 90°	3 bar 0° 90°	3,5 bar 0° 90°	4 bar 0° 90°	4,2 bar 0° 90°	4,5 bar 0° 90°	5 bar 0° 90°	5,5 bar 0° 90°	6 bar 0° 90°	7 bar 0° 90°	8 bar 0° 90°	
D	14,7	17,6	20,5	23,5	24,6	26,4	29,3	32	35,2	41	46,9	1,61

	OUTPUT TORQUE FOR SPRING RETURN IN Nm														Spring stroke		APPROX WEIGHT (KG)							
Pressure	2,5 bar		3 bar		3,5 bar		4 bar		4,2 bar		4,5 bar		5 bar					5,5 bar		6 bar		7 bar		8 bar
Spring Set	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		0°	90°	0°	90°	0°	90°	90°
	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
S 05	9,1	6,2	12,0	9,2	15,0	12,1	17,9	15	19,1	16,2	20,8	17,9											8,4	5,5
S 06	8,0	4,5	10,9	7,5	13,9	10,4	16,8	13,3	18	14,5	19,7	16,3	22,7	19,2	25,6	22,1							10,1	6,7
S 07			9,8	5,8	12,8	8,7	15,7	11,6	16,9	12,8	18,6	14,6	21,5	17,5	24,5	20,4	27,4	23,4					11,8	7,8
S 08					11,6	7	14,6	10,0	15,7	11,1	17,5	12,9	20,4	15,8	23,4	18,7	26,3	21,7	32,2	27,5			13,5	8,9
S 09							13,5	8,3	15	9,4	16,4	11,2	19,3	14,1	22,3	17,1	25,2	20	31,1	25,9	36,9	31,7	15,2	10
S 10											15,3	9,5	18,2	12,4	21,1	15,4	24,1	18,3	29,9	24,2	35,8	30	16,9	11,1
S 11													17,1	10,8	20	13,7	23	16,6	28,8	22,5	34,7	28,3	18,6	12,2
S 12															18,9	12	21,9	14,9	27,7	20,8	33,6	26,7	20,2	13,3

Technical Data

Max. Pressure	Rotation (For STD)	Screw stroke Adjustment	Chamber ϕ (mm)	Air Volume (L)		Moving Time (Sec.) (A)	
				Opening	Closing	Opening	Closing
8 bar	0° - 90°	For 1° adj. need 1/6 Turn	63	0,16	0,26	D 0,25 S 0,30	D 0,30 S 0,35

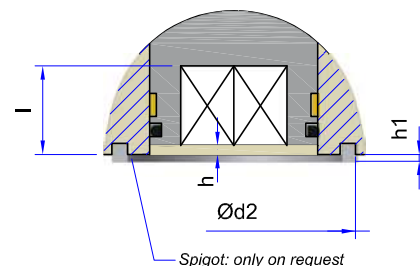
A) - The above indicated moving time of the actuator is obtained in the following test conditions: (1) Room Temperature, (2) Actuator Stroke 90°, (3) Solenoid Valve with Orifice of 4 mm and a flow capacity Qn 400 L/min., (4) Inside pipe diameter 8 mm, (5) Medium clean air, (6) Air supply pressure 5,5 bar (79,75 Psi), (7) Actuator without external resistance load. **Caution: obviously on the field applications when one or more of the above parameters are different, the moving time will be different.**

Operating Medium:

The operating medium must be free of dust and oil. The maximum particle size must not exceed 30µ (ISO 8573 Part1, Class5). In order to prevent water condensation and/or solidification (ice when actuator works below 0°C), the operating medium must have a dew point equal to -20°C or at least 10°C below the ambient temperature (ISO 8573 Part1, Class3).

ISO 5211 Flange Dimensions Available

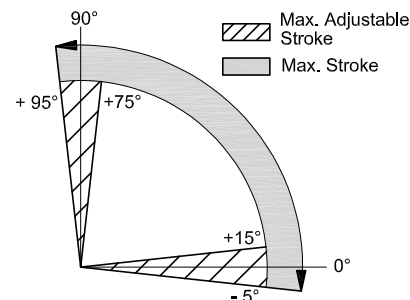
		STD		OPTIONAL			
ISO 5211	F05 + F07		F03 + F05		F04 + F07		F05
Ø d2	35	NA	25	NA	30	NA	35
Ø d3	50	70	36	50	42	70	50
d4	M6x9	M6x12	M5x8	M6x9	M5x8	M6x12	M6x9
Ø H	35		25		30		35
Ch x l min.	D	9x11 - 14x16					
	DS	11x19 - 14x16					
h min.	0,5	0,5	0,5	0,5	0,5	0,5	0,5
h1	2	NA	1,5	NA	2	NA	2



Connection / Attachment

Pressure connection: Port 2 and 4	G1/8"
Ancillary Attachment	AA 1

Rotation and stroke adjustment



Operating Temperature Range Options

Operating Temperature (°C) (B)		
ST (standard)	HT (high temperature)	LLT (Extreme low temperature)
-40 to +80	-15 to +150	-55 to +80

B) - Every temperature range option requires proper components and lubricant. See technical data-sheet N° T.D.S. U00501E.