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Model AT301 U D/S - 90°

*T.D.S. n° **AT301U-DM***
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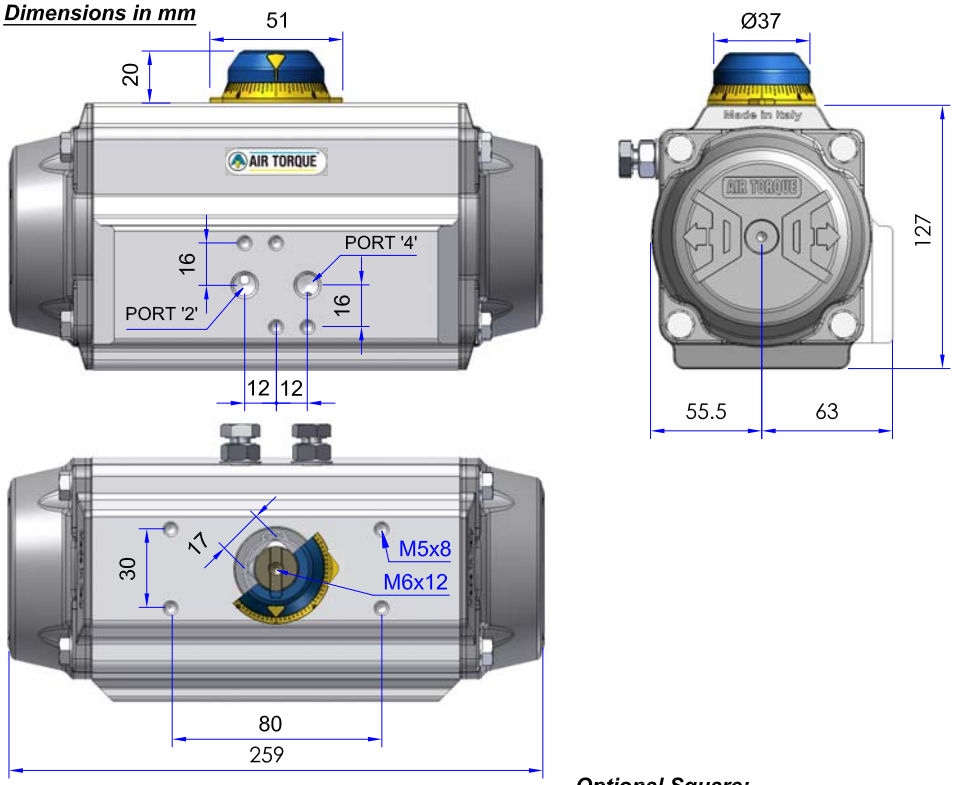
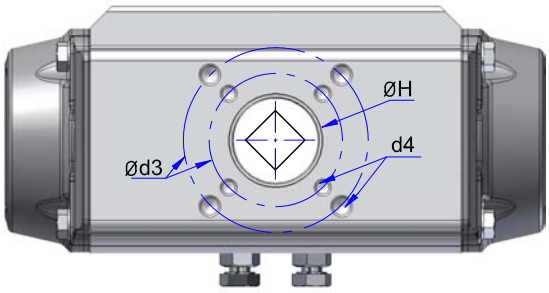
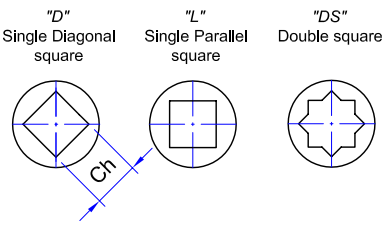
Dimensions in mm



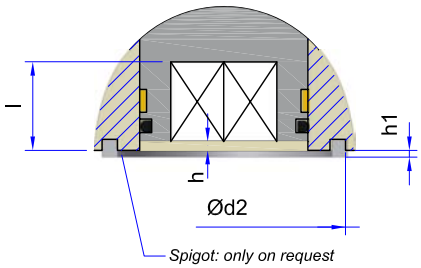


Optional Square:



ISO 5211 Flange Dimensions Available

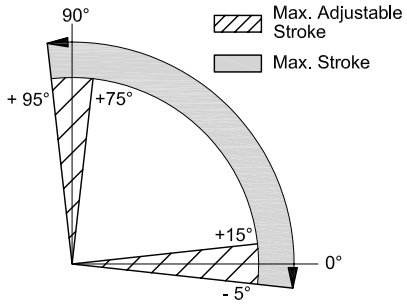
		STD		OPTIONAL		
ISO 5211		**F07 + F10**		F05 + F07		F07
Ø d2		55	NA	NA		55
d3		70	102	50	70	70
Ø d4		M8x12	M10x15	M6x9	M8x12	M8x12
Ø H		55		NA		55
Ch x l	**S**	14x19 - 17x19				
min.	**DS**	17x25 - 22x25				
h min.		1,5	1,5	1,5	1,5	1,5
h1		2	NA	NA		2



Connection / Attachment

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

Rotation and stroke adjustment



Output Torque

	OUTPUT TORQUE FOR DOUBLE ACTING IN Nm																				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**		
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
D	**66,5**		**79,8**		**93,1**		**106**		**112**		**120**		**133**		**146**		**160**		**186**		**213**		5,15

	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	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°	
Set	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Sart	End	
S 05	**41,1**	**27,1**	54,4	40,4	67,7	53,7	81	67	86,3	72,3	94,3	80,3	108	93,6									**39,4**	**25,3**	5,50
S 06	36,1	19,2	**49,4**	**32,5**	62,7	45,8	76	59,1	81,3	64,4	89,3	72,4	103	85,7	116	99							**47,3**	**30,4**	5,57
S 07			44,3	24,6	**57,6**	**37,9**	70,9	51,2	76,2	56,5	84,2	64,5	97,5	77,8	111	91,1	124	104					**55,1**	**35,5**	5,64
S 08					52,5	30	**65,8**	**43,3**	**71,1**	**48,7**	79,1	56,6	92,4	69,9	106	83,2	119	96,5	146	123			**63**	**40,5**	5,71
S 09							60,8	35,5	66	40,8	**74**	**48,8**	87,3	62,1	101	75,3	114	88,6	141	115	167	142	**70,9**	**45,6**	5,78
S 10											69	40,9	**82,3**	**54,2**	95,6	67,5	109	80,8	135	107	162	134	**78,8**	**50,7**	5,85
S 11													77,2	46,3	**90,5**	**59,6**	104	72,9	130	99,5	157	126	**86,7**	**55,7**	5,92
S 12															85,4	51,7	**98,7**	**65**	125	91,6	152	118	**94,5**	**60,8**	5,99

Technical Data

Max. Pressure	Rotation (For STD)	Screw stroke Adjustment	Chamber ϕ(mm)	Air Volume (L) Opening	Air Volume (L) Closing	Moving Time (Sec.) (A) Opening	Moving Time (Sec.) (A) Closing
8 bar	**0° - 90°**	For **1°** adj. need **1/6** Turn	100	0,71	1,11	D **0,50** S **0,70**	D **0,60** S **0,90**

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 Temperature Range

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.

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).

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Due to continuous development product data is subject to change without prior notice.