



AIR TORQUE

AIR TORQUE S.p.A.

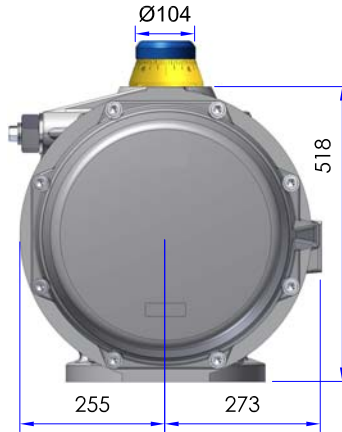
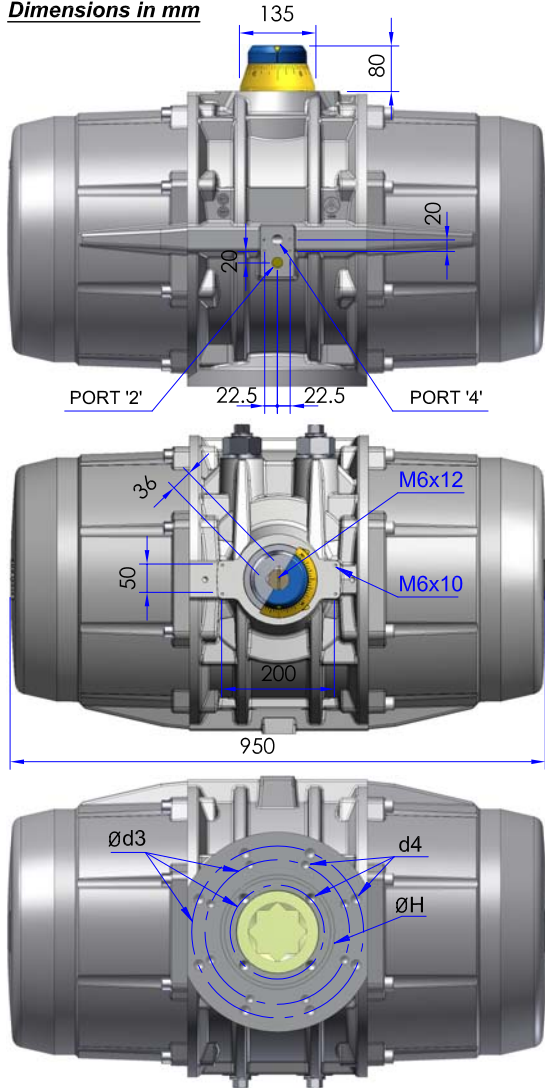
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Model AT1001 U
D/S - 90°

TDS n° **AT1001U-DM**
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Dimensions in mm

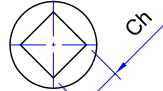


Optional Square:

"L"
Single Parallel square



"D"
Single Diagonal square

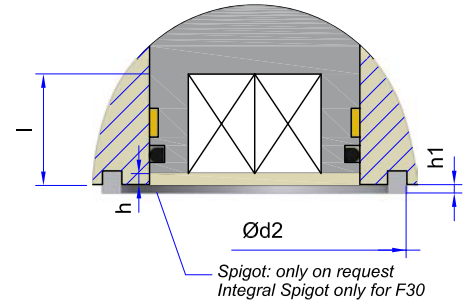


"DS"
Double square



ISO 5211 Flange Dimensions

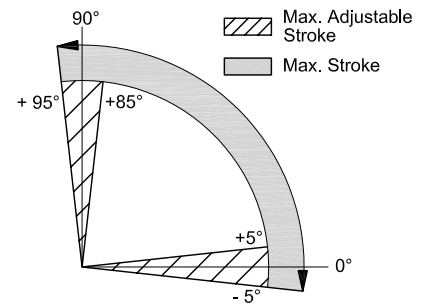
		STD	OPTIONAL
		F16 + F25 + F30	F30
ISO 5211	Ø d2	200 (F25)	230
	Ø d3	298	298
	Ø d3 A	254	NA
	Ø d3 B	165	NA
	d4	M20x30	M20x30
	d4 A	M16x24	NA
	d4 B	M20x30	NA
	Ø H	200	NA
Ch x l	D	75x77	
min.	DS	55x59 - 75x80	
	h min.	2,5	2,5
	h1	4	2



Connection / Attachment

Pressure connection: Port 2 and 4	G1/2"
Ancillary Attachment STANDARD	AA 5
Only on request with additional adapter plate	AA 4

Rotation and stroke adjustment



Output Torque

Press.	OUTPUT TORQUE FOR DOUBLE ACTING IN Nm										APPROX. WEIGHT (Kg) (c)
	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	Aluminium Drive Shaft
	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	
D	4169	5003	5837	6671	7005	7505	8339	9173	10007	11674	

Press.	OUTPUT TORQUE FOR SPRING RETURN IN Nm												Spring stroke	APPROX. WEIGHT (Kg) (c)
	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	All. Drive Shaft		
	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°		90° 0°	2475 1695
Spring Set	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	2474 1695	3308 2529	4142 3362	4976 4196	5310 4530	5810 5030	6644 5864						2970 2034	204
S 06	2135 1200	2969 2034	3803 2867	4637 3701	4971 4035	5471 4535	6305 5369	7139 6203					2970 2034	204
S 07		2630 1539	3464 2373	4298 3206	4632 3540	5132 4040	5966 4874	6800 5708	7633 6542				3465 2373	210
S 08			3125 1878	3959 2711	4292 3045	4793 3545	5627 4379	6461 5213	7294 6047	8962 7715			3960 2712	216
S 09				3620 2217	3953 2550	4454 3050	5288 3884	6122 4718	6955 5552	8623 7220	10291 8887		4455 3051	221
S 10						4115 2555	4949 3389	5783 4223	6616 5057	8284 6725	9952 8393		4949 3390	227
S 11							4610 2894	5444 3728	6277 4562	7945 6230	9613 7898		5444 3729	233
S 12								5105 3233	5938 4067	7606 5735	9274 7403		5939 4068	238

Technical Data

Max. Pressure	Rotation	Screw stroke Adjustment	Chamber Ø (mm)	Air Volume (L)		Moving Time (Sec.) (A)	
				Opening	Closing	Opening	Closing
D = 7 bar S = 8 bar	0° - 90°	For 1° adj. need 1/4 Turn	420	49	84	D 8 S 10	D 9 S 11

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

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 11 mm and a flow capacity Qn 6000 L/min., (4) Inside pipe diameter 11 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.**

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

C) - For actuator with **Stainless Steel Pinion** add 31 Kg approximate weight.

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).