



# AIR TORQUE

## AIR TORQUE S.p.A.

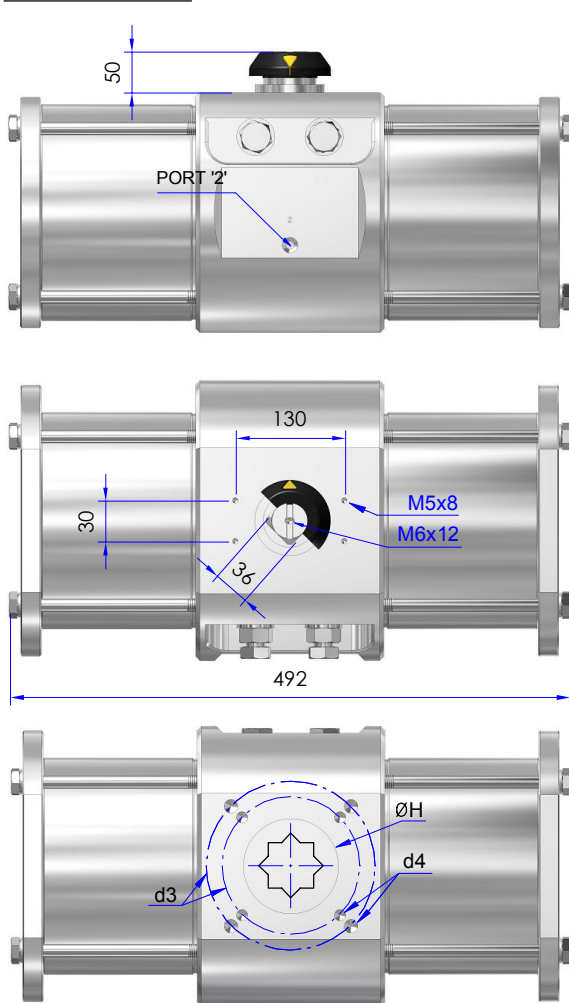
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## Model SB AT554 D/S - 90°

T.D.S. n° SB AT554-DM  
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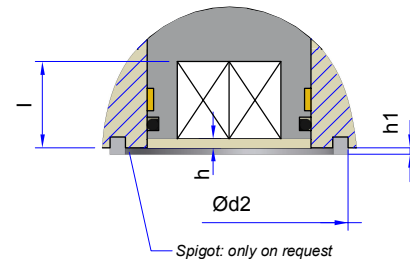
### Dimensions in mm



Drive Shaft with  
Integral Top

### ISO 5211 Flange Dimensions Available

ISO 5211	STD		OPTIONAL	
	F14	F10 + F12		
Ø d2	100	NA	85	
Ø d3	140	102	125	
d4	M16X24	M10x15	M12x18	
Ø H	100	70		
Ch x l min.	DS27x29 - DS36x39			
h min.	2	2	2	
h1	3	NA	1,5	

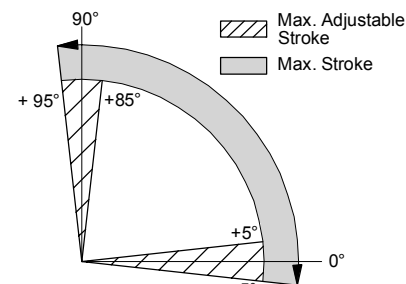


### Connection / Attachment

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

\*NPT (ANSI B1-20-1) threads available on request

### Rotation and stroke adjustment



### Output Torque

Pressure	OUTPUT TORQUE FOR DOUBLE ACTING IN Nm												APPROX. WEIGHT (Kg)	
	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°	58		
D	383	459	536	613	643	689	766	842	919	1072	1225			

Pressure	OUTPUT TORQUE FOR SPRING RETURN IN Nm												Spring stroke		APPROX. WEIGHT (Kg)	
	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°	90° 0°	0° 90°			
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	Start End	Start End	Start End	Start End
S 05	225 146	301 223	378 299	455 376	485 406	531 452	608 529					237 158				60,7
S 06	193 99	270 175	346 252	423 329	454 359	500 405	576 482	653 558				284 190				61,3
S 07		238 128	315 205	391 281	422 312	468 358	544 434	621 511	698 587			332 221				61,8
S 08			283 157	360 234	390 264	436 310	513 387	589 464	666 540	819 693		379 253				62,3
S 09				328 186	359 217	405 263	481 340	558 416	634 493	788 646	941 799	426 285				62,9
S 10						373 216	450 292	526 369	603 445	756 599	909 752	474 316				63,4
S 11							418 245	495 321	571 398	724 551	877 704	521 348				64
S 12								463 274	540 351	693 504	846 657	568 379				64,5

### 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 1/4 Turn	180	4,26	6,89	D 2,0 S 2,4	D 2,2 S 2,8

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.**

### 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).

### 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. S00501E.