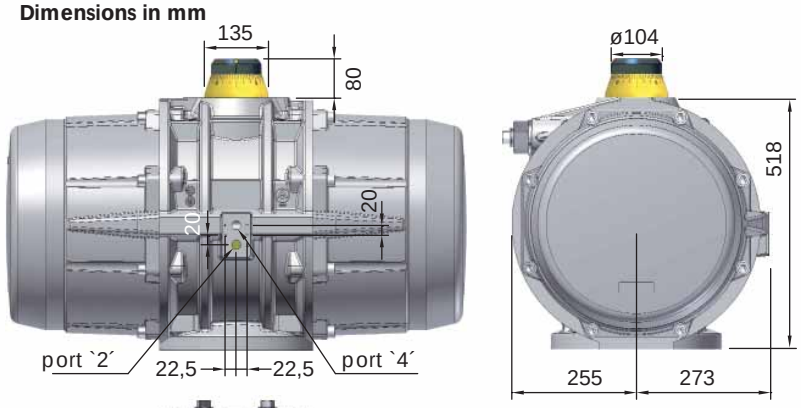
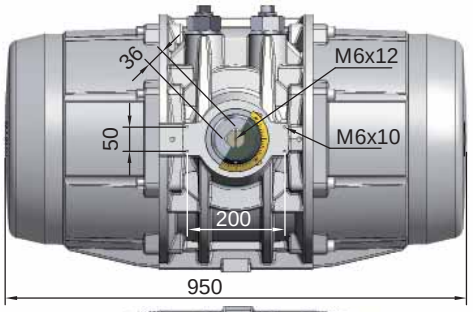
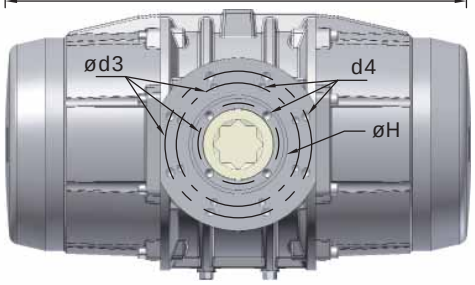
EDITION 2010
Technical Data
DR/SC10000U

AIR TORQUE
PNEUMATISCHE STELLANTRIEBE

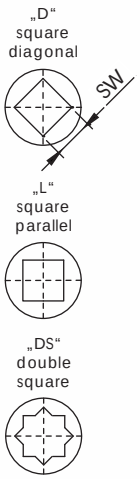
Dimensions in mm







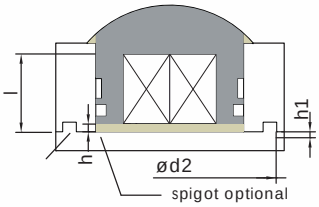
optional squares



ISO 5211 - available flanges

		Standard	optional
ISO 5211		F16* + F25* + F30	F30
Ø d2		200 (F25)	230
Ø d3		298	298
Ø d3 A		254	-
Ø d3 B		165	-
d4		M20 x 30	M20 x 30
d4 A		M16 x 24	-
d4 B		M20 x 30	-
Ø H		200	-
SW x l min.	D	-	75 x 80
	DS	75 x 80	55 x 59 - 75 x 80
h min.		2,5	2,5
h1		4	2

*before selecting the flange connection please consider the indications of standard n° 5211 on page 0911 of our manual for op. and maintenance

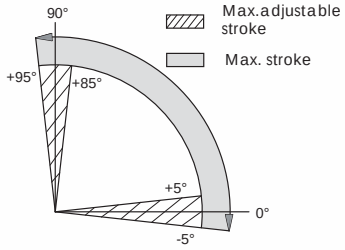


Connection / Attachment

Pressure connection port 2 and 4	G1/2“
Ancillaries attachment standard	AA 5
A.A. with additional adapter plate*	AA 4

*optional

Rotation and stroke adjustment



Pressure	Output torque for double acting and spring return in Nm											Spring torque	approx. weight
	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		90° 0°	in kg(C)
	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°	0° 90°			
DR	**4169**	**5003**	**5837**	**6671**	**7005**	**7505**	**8339**	**9173**	**10007**	**11674**		-	170
SC 2/3	**2474 1695**	3308 2529	4142 3362	4976 4196	5310 4530	5810 5030	6644 5864					**2475 1695**	199
SC 3	2135 1200	**2969 2034**	3803 2867	4637 3701	4971 4035	5471 4535	6305 5369	7139 6203				**2970 2034**	204
SC 3/4		2630 1539	**3464 2373**	4298 3206	4632 3540	5132 4040	5966 4874	6800 5708	7633 6542			**3465 2373**	210
SC 4			3125 1878	**3959 2711**	**4292 3045**	4793 3545	5627 4379	6461 5213	7294 6047	8962 7715		**3960 2712**	216
SC 4/5				3620 2217	3953 2550	**4454 3050**	5288 3884	6122 4718	6955 5552	8623 7220	10291 8887	**4455 3051**	221
SC 5						4115 2555	**4949 3389**	5783 4223	6616 5057	8284 6725	9952 8393	**4949 3390**	227
SC 5/6							4610 2894	**5444 3728**	6277 4562	7945 6230	9613 7898	**5444 3729**	233
SC 6								5105 3233	**5938 4067**	7606 5735	9274 7403	**5939 4068**	238

Pressure max.	Rotation (STD) (C)	Screw stroke adjustment	Chamber (Ø mm)	Air volume (L) OPEN	Air volume (L) CLOSE	Moving time (sec.) (A) OPEN	Moving time (sec.) (A) CLOSE
8 bar	0° - 90°	for 1° 1/4 rotation	420	49	84	D 8 S 10	D 9 S 11

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 under the following test conditions: **(1)** room temperature, **(2)** actuator stroke 90°, **(3)** solenoid valve with Ø 4 mm and flow capacity Qn 6000 L/min., **(4)** inside pipe Ø 11 mm, **(5)** medium clean air, **(6)** air supply pressure 5,5 bar (79,75 Psi), **(7)** actuator without external resistance load. **Caution**: It has to be expected, e.g. for 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. Please contact Air Torque GmbH.

(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)

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