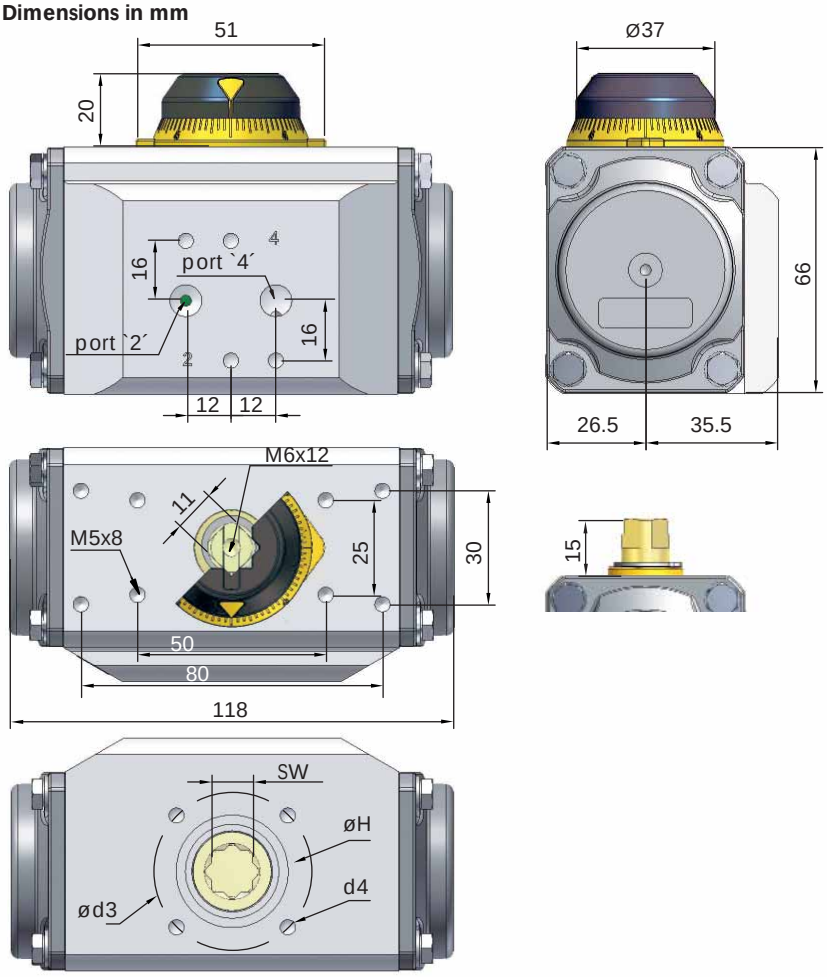
EDITION 2010
Technical Data
DR/SC00010U

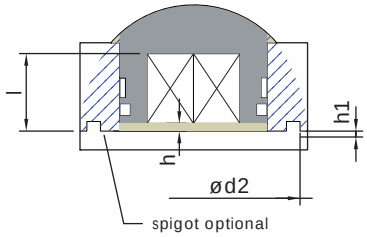
AIR TORQUE
PNEUMATISCHE STELLANTRIEBE

Dimensions in mm



ISO 5211 - available flanges

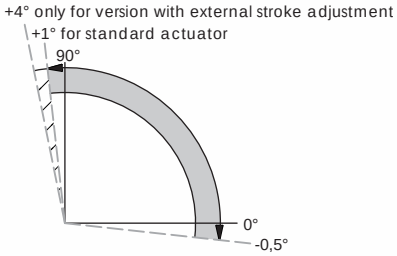
		Standard	optional
ISO 5211		F04	F03
Ø d2		30	25
Ø d3		42	36
d4		M5 x 8	M5 x 8
Ø H		30	25
SW x l min.	D	-	-
	DS	11 x 12	9 x 11 - 11 x 12
h min.		0,5	0,5
h1		1,5	2



Connection / Attachment

Pressure connection port 2 and 4	**G1/8“**
Ancillaries attachment	**AA0/1**

Rotation and stroke adjustment



Pressure	Output torque for double acting in Nm											approx. weight in kg
	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°	
DR	**6,0**		**7,2**		**8,4**	**9,6**	**10,1**	**10,8**	**12,0**	**13,2**	**14,4**	**16,8**	**19,1**	0,75

	Output torque for single acting in Nm												Spring torque		approx. weight in 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																	
S 1-1	4,3	2,9													**3,1**	**1,7**	0,86
S 1-2			**4,7**	**2,4**											**4,8**	**2,6**	0,87
S 2-2					4,9	2,0	**6,1**	**3,2**	**6,6**	**3,7**	7,3	4,4			**6,4**	**3,5**	0,88
S 2-3									6,6	2,8	**7,8**	**4,0**	**9,0**	**5,2**	**8,0**	**4,2**	0,89
S 3-3													8,2	3,6	**9,4**	**4,8**	11,8	7,2	14,1	9,5	**9,6**	**5,0**	0,90

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°**	**s. note (C)**	**45**	**0,06**	**0,1**	D **0,15** S **0,20**	D **0,20** S **0,25**

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 400 L/min., **(4)** inside pipe Ø 8 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) Rotation for standard actuator: 91,5° + 1° in open position and -0,5° in closed position. Rotation for actuator with external stroke adjustment 94,5°, 90° + 4° adjustable in open position and -0,5° in closed position.

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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