



AIR TORQUE

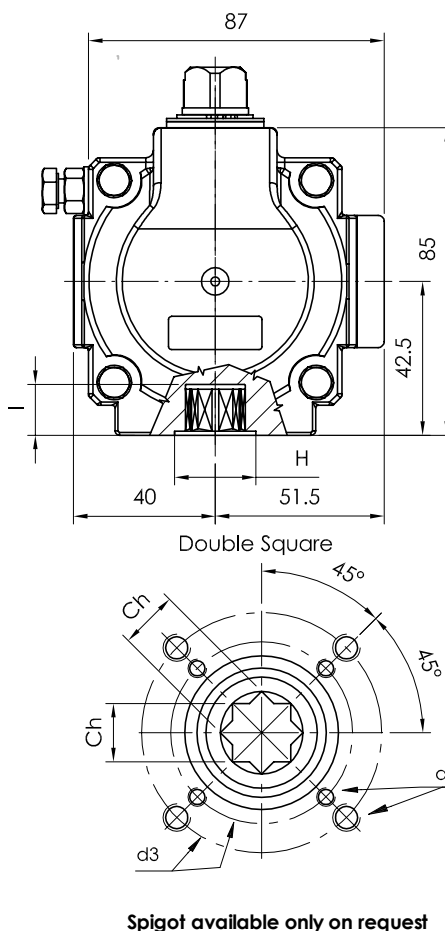
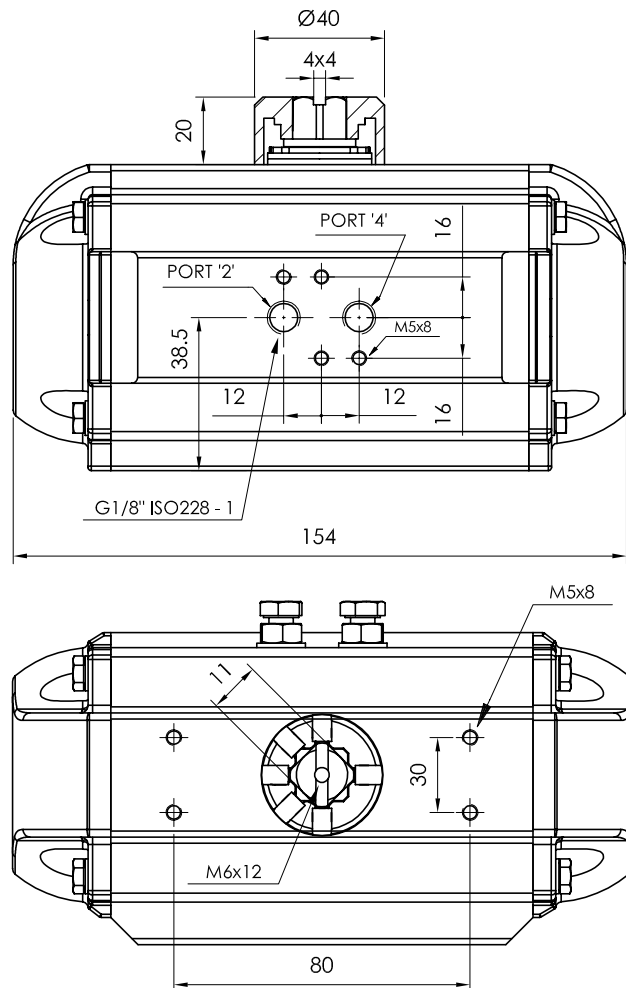
AIR TORQUE S.p.A.
via Alla Campagna, N° 1
24060 Costa di Mezzate (Bg) Italy
Tel.: +39 035 682299
Fax: +39 035 687791
E-mail: info@airtorque.it

Technical Data Sheet n° **PT100DM**
Issued on: 12/04

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Model PT100
DA and SR - 90°

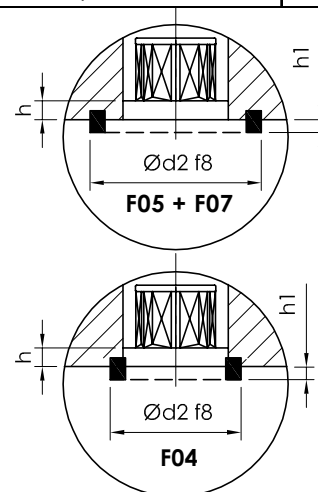
Dimensions in mm



Available flange:

- ⇒ F04
- ⇒ F05
- ⇒ F05 + F07

Flange Dimensions			
ISO 5211	F04	F05	F07
d2 f8	30	35	NA
d3	42	50	70
d4	M5x8	M6x9	M8x12
H	30	35	35
Ch	11	14	14
I min.	12	16	16
h min.	0,5	0,5	0,5
h1	2	2	NA
Pressure connection			B 1
Ancillary Attachment			AA 1



TYPE	OUTPUT TORQUE FOR DOUBLE ACTING IN Nm												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°	1,72
D	14,7		17,6		20,5		23,5		24,6		26,4		29,3		32		35,2		41		46,9		

TYPE	OUTPUT TORQUE FOR SPRING RETURN IN Nm																Spring stroke		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		90°	0°
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		0°	90°	0°	90°	End	Start
S 05	9,1	6,2	12,0	9,2	15,0	12,1	17,9	15	19,1	16,2	20,8	17,9	23,8	20,9									8,4	5,5	1,81
S 06	8,0	4,5	10,9	7,5	13,9	10,4	16,8	13,3	18	14,5	19,7	16,3	22,7	19,2	25,6	22,1							10,1	6,7	1,82
S 07			9,8	5,8	12,8	8,7	15,7	11,6	16,9	12,8	18,6	14,6	21,5	17,5	24,5	20,4	27,4	23,4					11,8	7,8	1,84
S 08					11,6	7	14,6	10,0	15,7	11,1	17,5	12,9	20,4	15,8	23,4	18,7	26,3	21,7	32,2	27,5			13,5	8,9	1,85
S 09							13,5	8,3	15	9,4	16,4	11,2	19,3	14,1	22,3	17,1	25,2	20	31,1	25,9	36,9	31,7	15,2	10	1,87
S 10											15,3	9,5	18,2	12,4	21,1	15,4	24,1	18,3	29,9	24,2	35,8	30	16,9	11,1	1,89
S 11											17,1	10,8	20	13,7	23	16,6	28,8	22,5	34,7	28,3			18,6	12,2	1,90
S 12													18,9	12	21,9	14,9	27,7	20,8	33,6	26,7			20,2	13,3	1,92

Max. Pressure	Rotation	Screw stroke Adjustment	Chamber φ (mm)	Air Volume (L)		Moving Time (Sec.) (A)		Operating Temperature (°C) (B)		
				Opening	Closing	Opening	Closing	STD (standard)	HT (high temperature)	LT (low temperature)
8 bar	90° ±4° at 0° and 90°	For 1° adj. need 1/6 Turn	63	0,16	0,26	D 0,25 S 0,30	D 0,30 S 0,35	NBR "O" ring - 20 to + 80	FPM "O" ring - 15 to + 150	Silicone "O" ring - 40 to + 80

Notes:

(A) The above indicated moving time of the actuator, are 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. **Cautions: obviously on the field applications when one or more of the above parameter are different, the moving time will be different.**

(B) For HT (high temperature) and LT (low temperature) services, a special Lubricant is requested. Please contact Air Torque factory.

Operating Medium:

The operating medium must be free of dust and oil. The maximum particle size must not exceed 30µm (ISO 8573 Part1, Class5). In order to prevent water condensation and/or solidification (ice, when actuator work 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).