



AIR TORQUE

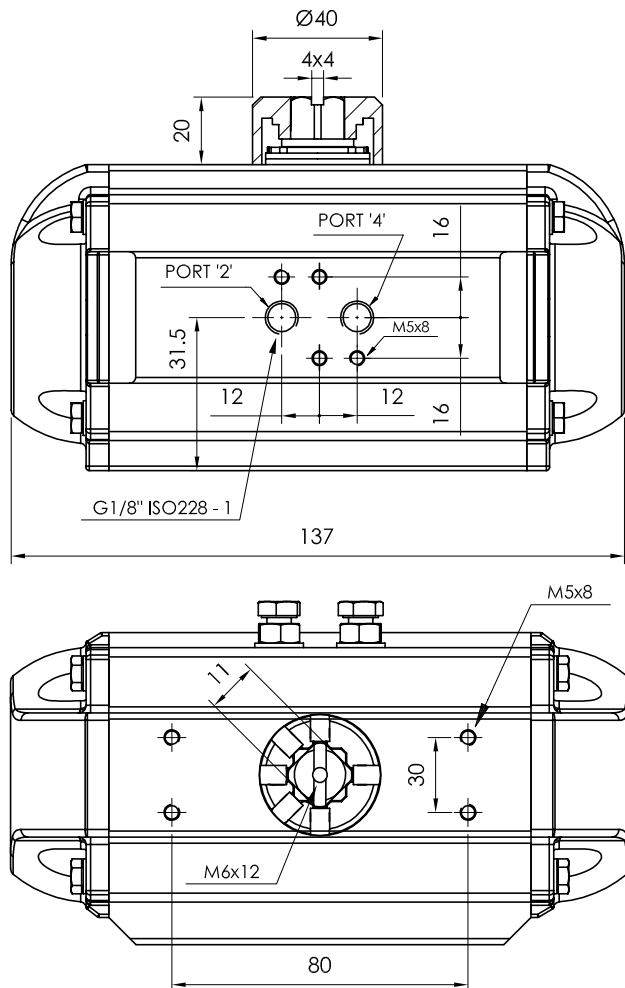
AIR TORQUE S.p.A.
via Alla Campagna, N°1
24060 Costa di Mezzate(Bg) Italy
Tel.: +39 035 682299
Fax: +39 035 687791
E-mail: info@airtorque.it

Technical Data Sheet n°PT050DM
Issued on: 12/04

Page: 1/1

Model PT050
DA and SR - 90°

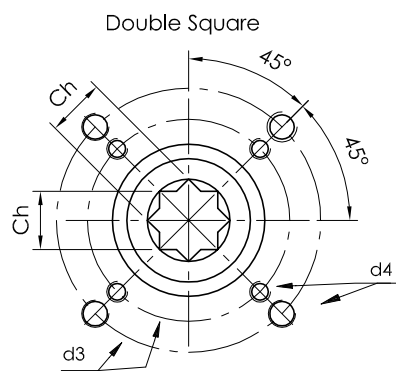
Dimensions in mm



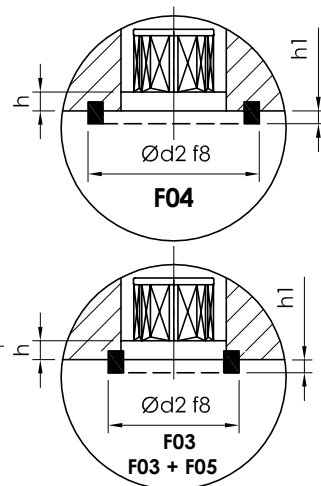
Available flange:

- ⇒ F03
- ⇒ F04
- ⇒ F03 + F05

Flange Dimensions			
ISO 5211	F03	F04	F05
d2 f8	25	30	NA
d3	36	42	50
d4	M5x8	M5x8	M6x9
H	25	30	25
Ch	9	11	11
I min.	10	12	12
h min.	0,5	0,5	0,5
h1	1,5	1,5	NA
Pressure connection			B 1
Ancillary Attachment			AA 1



Spigot available only on request



TYPE	OUTPUT TORQUE FOR DOUBLE ACTING IN Nm												WEIGHT (Kg)
Pressure	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°		
D	8,3	10	11,6	13,3	14	15	16,6	18,3	19,9	23,3	26,6		

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	4,9	3,4	6,6	5,1	8,3	6,8	9,9	8,4	10,6	9,1	11,6	10,1	13,2	11,7									4,9	3,4	1,19
S 06	4,3	2,5	5,9	4,1	7,6	5,8	9,3	7,4	9,9	8,1	10,9	9,1	12,6	10,8	14,2	12,4							5,8	4	1,20
S 07			5,3	3,1	6,9	4,8	8,6	6,5	9,2	7,1	10,2	8,1	11,9	9,8	13,6	11,5	15,2	13,1					6,8	4,7	1,21
S 08					6,2	3,8	7,9	5,5	8,6	6,2	9,6	7,2	11,2	8,8	12,9	10,5	14,6	12,1	17,9	15,5			7,8	5,4	1,22
S 09							7,2	4,5	7,9	5,2	8,9	6,2	10,6	7,8	12,2	9,5	13,9	11,2	17,2	14,5	20,5	17,8	8,8	6,1	1,23
S 10											8,2	5,2	9,9	6,9	11,5	8,5	13,2	10,2	16,5	13,5	19,8	16,8	9,7	6,7	1,24
S 11													9,2	5,9	10,9	7,6	12,5	9,2	15,9	12,5	19,2	15,9	10,7	7,4	1,25
S 12															10,2	6,6	11,9	8,2	15,2	11,6	18,5	14,9	11,7	8,1	1,26

Max. Pressure	Rotation	Screw stroke Adjustment	Chamber ϕ (mm)	Air Volume (L)		Moving Time (Sec.) (A)		Operating Temperature (°C) (B)		
	90° ±4° at 0° and 90°	For 1° adj. need 1/6 Turn	50	Opening	Closing	Opening	Closing	STD (standard)	HT (high temperature)	LT (low temperature)
8 bar				D 0,20 S 0,25		D 0,25 S 0,30		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).

This data sheet is property of AIR TORQUE S.p.A. Costa di Mezzate - Italy and all rights of use and reproduction are reserved.

This data sheet is general in nature and manufacturer reserves the right to alter materials or to make other improvements from time to time