



AIR TORQUE

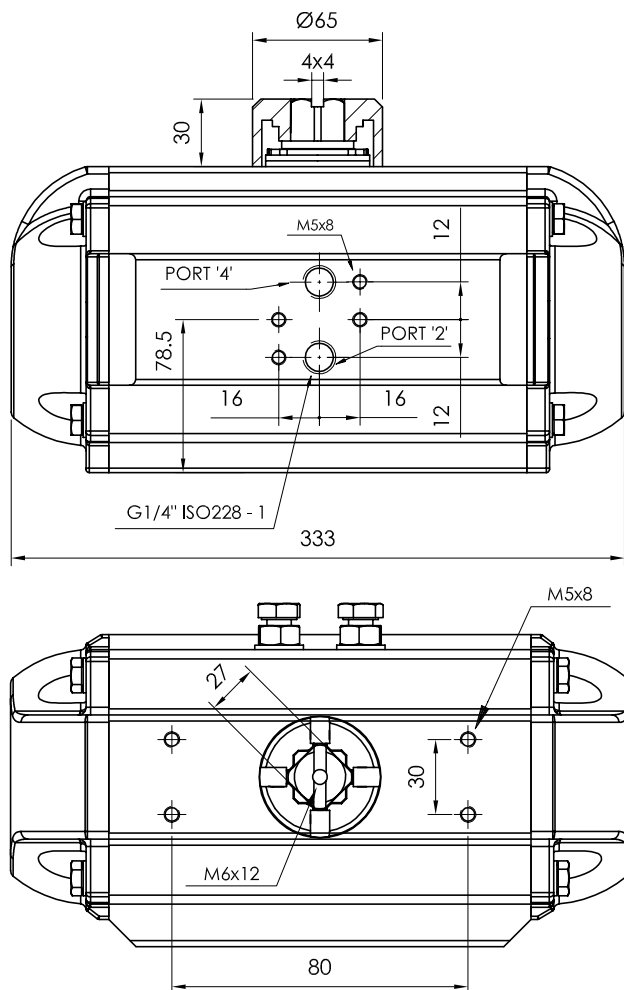
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Technical Data Sheet n° **PT400DM**
Issued on: 12/04

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Model PT400
DA and SR - 90°

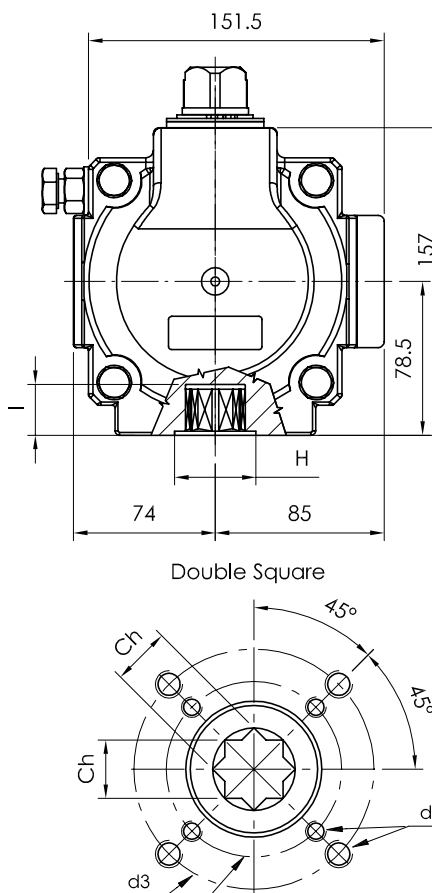
Dimensions in mm



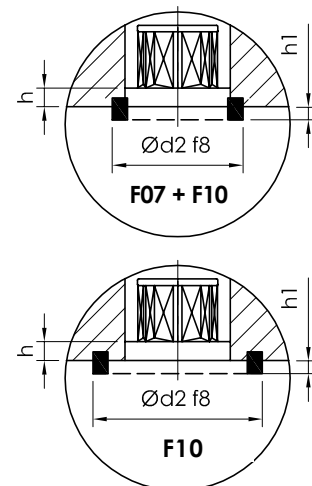
Available flange:

⇒ **F10**
⇒ **F07 + F10**

Flange Dimensions			
ISO 5211	F07	F10	
d2 f8	55	70	
d3	70	102	
d4	M8x12	M10x15	
H	55	70	
Ch	22	22	27
I min.	24	24	29
h min.	1,5	1,5	
h1	2,5	2	
Pressure connection			B 2
Ancillary Attachment			AA 2



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	138	166	194	222	233	249	277	305	332	388	443	10,7	

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	86	56,1	114	83,8	141	111	169	139	180	150	197	167	224	195									82,4	52,5	11,5
S 06	75,5	39,6	103	67,3	131	95	159	123	170	134	186	150	214	178	242	206							98,9	63	11,7
S 07			92,7	50,8	120	78,5	148	106	159	117	176	134	203	162	231	189	259	217					115	73,5	11,8
S 08					110	62	138	89,7	149	101	165	117	193	145	221	173	248	201	304	256			132	84	12,0
S 09							127	73,3	138	84,3	155	101	182	129	210	156	238	184	293	239	349	295	148	94,5	12,1
S 10											144	84,5	172	112	200	140	227	168	283	223	338	278	165	105	12,3
S 11													161	95,7	189	123	217	151	272	206	328	262	181	116	12,4
S 12															179	107	206	135	262	190	317	245	198	126	12,6

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 1/4 Turn	125	1,54	2,34	D 0,9 S 1,2	D 1,1 S 1,4	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).