



AIR TORQUE

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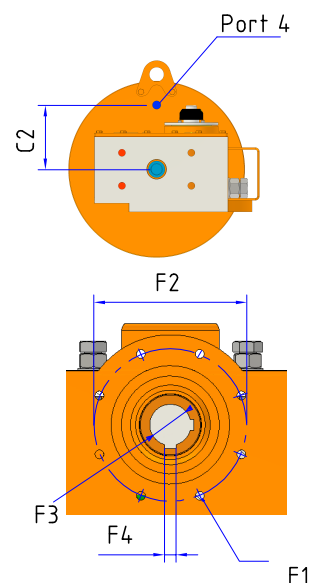
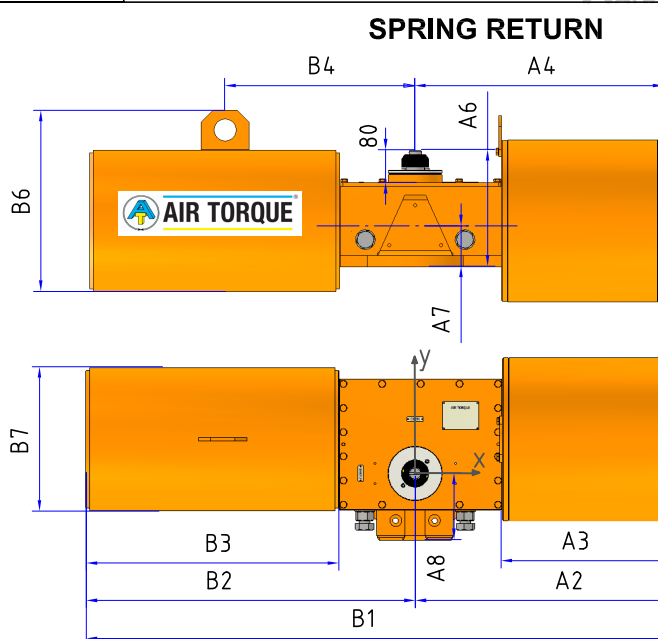
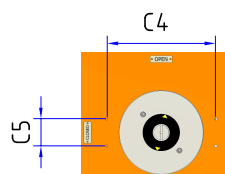
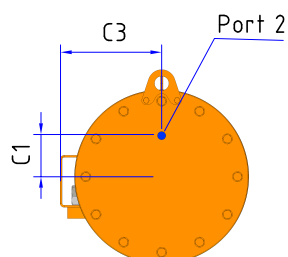


Model
AT-HD-085-P385I

T.D.S. n° AT-HD-085-P385I

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Dimensions in inches

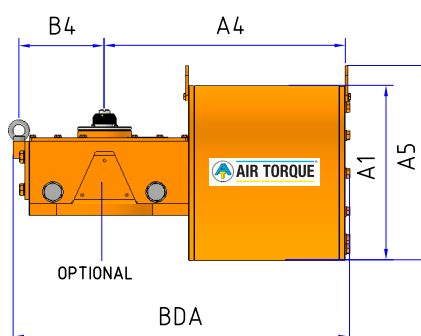


Center of gravity			
	SET	X	Y
DA	-	10,16	2,80
SR	04	0,29	2,98
	06	-0,24	2,99
	08	-1,79	3,01

Actuator dimension					
SPRING SET	04	06	08	DA	
A1	16,02	16,02	16,02	16,02	
A2	25,04	25,04	25,04	25,04	
A3	16,46	16,46	16,46	16,46	
A4	24,61	24,61	24,61	24,61	
A5	18,43	18,43	18,43	18,43	
A6	11,50	11,50	11,50	11,50	
A7	4,53	4,53	4,53	4,53	
A8	6,54	6,54	6,54	6,54	
B1	57,24	57,24	60,59	-	
B2	32,20	32,20	35,55	-	
B3	24,76	24,76	28,11	-	
B4	18,78	18,78	22,13	8,54	
BDA	-	-	-	34,25	
B6	17,95	17,95	17,95	-	
B7	14,02	14,02	14,02	-	
WEIGHT (lbs)	794	816	856	532	

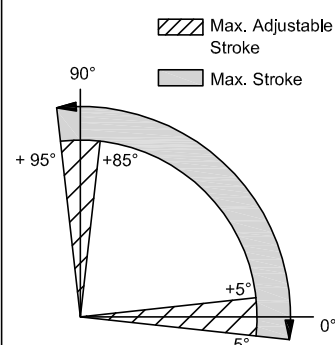
Pressure connection	
PORT 2 AND 4	G1/2"
	1/2"NPT
C1	4,53
C2	5,91
C3	9,88
Ancillary Attachment	
SIZE	AA5
C4	7,87
C5	1,97
HOLES	M6

DOUBLE ACTING



ISO 5211 Interface		
	STD	OPTIONAL
ISO 5211	F25	
F1	M16X1,18	
F2	10,00	
F3	2,83H7	
F4	0,787D10	
Connection keyed bore depth	8,70	

Rotation and stroke adjustment



Technical data

Rotation STD	Air volume (in ³)				Approx. Moving time (sec.)(A)				Operating temperature range (°F)		
	Symmetric		Canted		DA		SR				
	opening	closing	opening	closing	opening	closing	opening	closing	S	H	L
0°-90°	1695	1575	1626	1914	0,9	1,0	2,4 ÷ 3,6	2,2 ÷ 3,3	-40 to +176	+5 to +302	-

Note:

A- Moving time test conditions: 90° stroke; Kv Supply system 2,7; no resistance load applied.

B- For operation, maintenance and services refer to the manual instruction IMAT AT-HD.

C- Maximum transmissible torque: 70.805 lbin (see M.O.P. for different configuration).

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SYMMETRIC YOKE

DOUBLE ACTING OUTPUT TORQUE (Lb-in)

Supply pressure	40 PSI		50 PSI		60 PSI		70 PSI		80 PSI		100 PSI		120 PSI		150 PSI	
Position	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing
Start	34.308	33.827	42.885	42.283	51.462	50.740	60.039	59.197	M.O.P. exceeded							
Run	20.001	19.721	25.001	24.651	30.002	29.581	35.002	34.511								
End	38.120	37.585	47.650	46.982	57.180	56.378	66.709	65.774								

SPRING RETURN OUTPUT TORQUE (Lb-in)

	Position	Spring - torque	Supply pressure - opening									
			40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	100 PSI	120 PSI	150 PSI		
SPRING SET 04	Start	19.914	20.766	29.343	37.920						M.O.P. exceeded	
	Run	8.689	11.312	16.312	21.313							
	End	13.542	18.205	27.735	37.265							
SPRING SET 06	Start	30.978		21.820	30.397	38.974					M.O.P. exceeded	
	Run	13.516		11.485	16.485	21.486						
	End	21.065		16.672	26.202	35.732						
SPRING SET 08	Start	42.041			22.874	31.451	40.028	57.182			M.O.P. exceeded	
	Run	18.343			11.658	16.658	21.659	31.659				
	End	28.588			15.138	24.668	34.198	53.258				

CANTED YOKE

DOUBLE ACTING OUTPUT TORQUE (Lb-in)

Supply pressure	40 PSI		50 PSI		60 PSI		70 PSI		80 PSI		100 PSI		120 PSI		150 PSI	
Position	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing	opening	closing
Start	51.310	26.610	64.138	33.262	M.O.P. exceeded											
Run	19.579	19.534	24.473	24.418												
End	28.948	54.765	36.185	68.457												

SPRING RETURN OUTPUT TORQUE (Lb-in)

	Position	Spring - torque	Supply pressure - opening									
			40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	100 PSI	120 PSI	150 PSI		
SPRING SET 04	Start	15.993	30.840	43.667							M.O.P. exceeded	
	Run	9.290	10.289	15.183								
	End	20.471	12.955	20.191								
SPRING SET 06	Start	24.888		32.266	45.093	57.921					M.O.P. exceeded	
	Run	14.459		10.014	14.909	19.804						
	End	31.872		11.296	18.533	25.770						
SPRING SET 08	Start	33.801			33.703	46.531	59.358				M.O.P. exceeded	
	Run	19.633			9.735	14.629	19.524					
	End	43.262			9.621	16.858	24.095					

- M.O.P.: Maximun Operating Pressure.

- Torque values refer to: Counterclockwise rotation for opening and Clockwise rotation for closing (top view).

- TORQUES / POSITIONS:

