



AIR TORQUE

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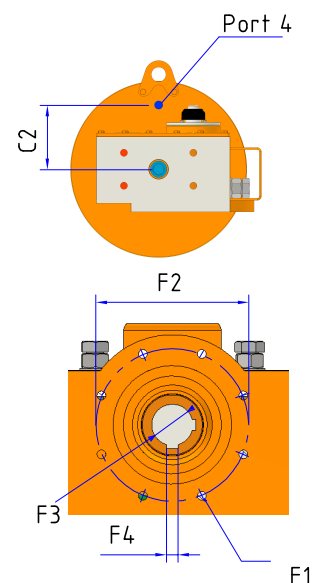
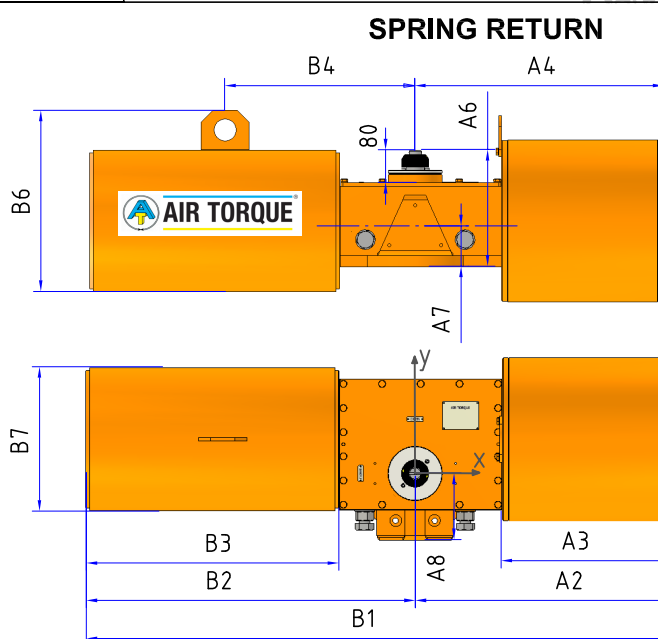
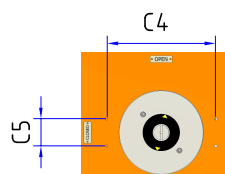
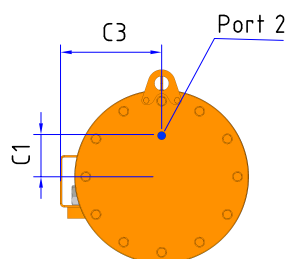


Model
AT-HD-085-P435I

T.D.S. n° AT-HD-085-P435I

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Dimensions in inches

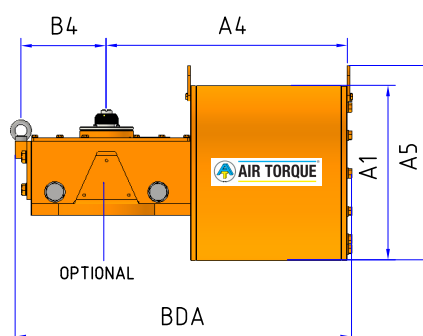


Center of gravity			
	SET	X	Y
DA	-	11,30	2,88
SR			
	06	1,67	3,03
	08	0,20	3,04

Actuator dimension					
SPRING SET		06	08	DA	
A1		18,03	18,03	18,03	
A2		25,51	25,51	25,51	
A3		16,97	16,97	16,97	
A4		25,08	25,08	25,08	
A5		20,43	20,43	20,43	
A6		11,50	11,50	11,50	
A7		4,53	4,53	4,53	
A8		6,54	6,54	6,54	
B1		57,72	61,06	-	
B2		32,20	35,55	-	
B3		24,76	28,11	-	
B4		18,78	22,13	8,50	
BDA		-	-	34,72	
B6		17,95	17,95	-	
B7		14,02	14,02	-	
WEIGHT (lbs)		913	953	629	

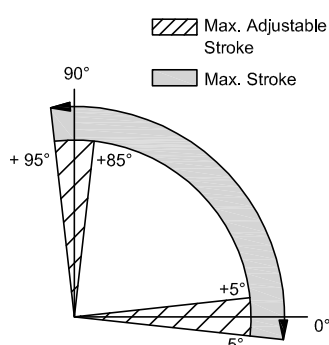
Pressure connection	
PORT 2 AND 4	G3/4"
	3/4"NPT
C1	4,72
C2	6,30
C3	9,88
Ancillary Attachment	
SIZE	AA5
C4	7,87
C5	1,97
HOLES	M6

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°	2183	2008	2094	2160	0,8	0,8	2,0 ÷ 3,0	1,9 ÷ 2,8	-40 to +176	+5 to +302	-

Note:

A- Moving time test conditions: 90° stroke; Kv Supply system 4,0; 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	43.930	43.449	54.913	54.311	M.O.P. exceeded											
Run	25.611	25.330	32.014	31.663												
End	48.811	48.277	61.014	60.346												

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 06	Start	30.978	22.865	33.848	44.830	M.O.P. exceeded						
	Run	13.516	12.095	18.497	24.900							
	End	21.065	17.834	30.036	42.239							
SPRING SET 08	Start	42.041		26.325	37.307	48.290	59.272	M.O.P. exceeded				
	Run	18.343		13.670	20.073	26.475	32.878					
	End	28.588		18.973	31.176	43.378	55.581					

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	65.701	34.137	M.O.P. exceeded													
Run	25.070	25.060														
End	37.067	70.257														

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 06	Start	24.888	33.829	50.254	66.680	M.O.P. exceeded						
	Run	14.459	10.611	16.878	23.146							
	End	31.872	12.179	21.445	30.712							
SPRING SET 08	Start	33.801	22.439	38.864	55.290	M.O.P. exceeded						
	Run	19.633	5.437	11.704	17.971							
	End	43.262	3.266	12.533	21.799							

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

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

- TORQUES / POSITIONS:

