



AIR TORQUE

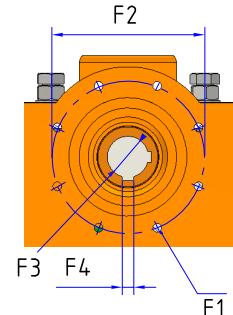
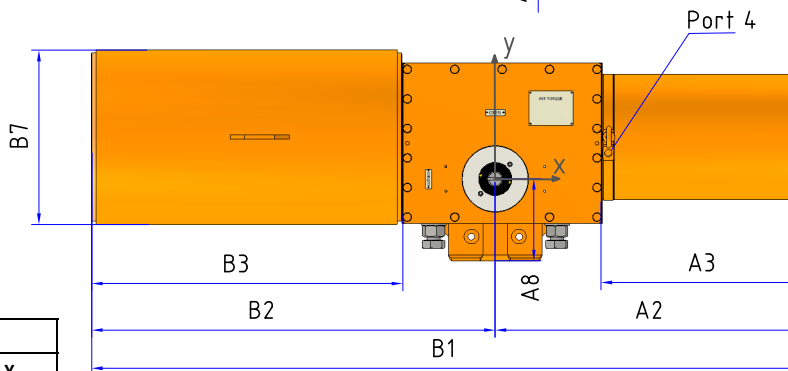
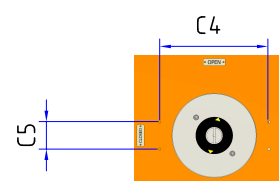
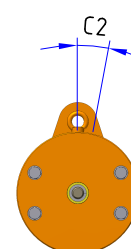
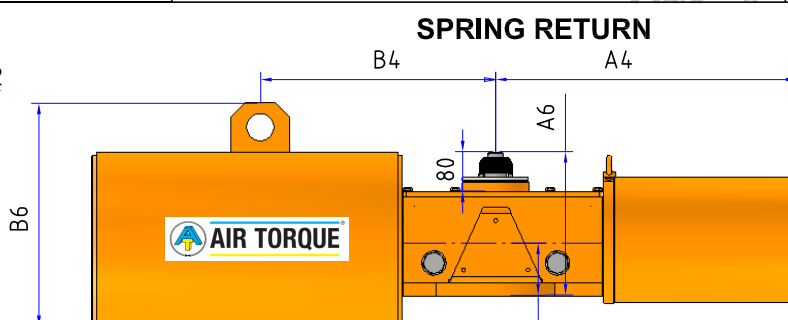
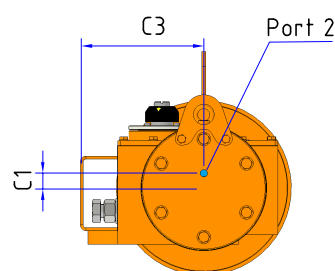
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Model
AT-HD-085-P285I

T.D.S. n° AT-HD-085-P285I

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Dimensions in inches

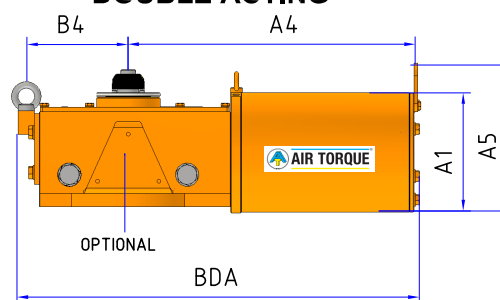


Center of gravity			
	SET	X	Y
DA	-	7,09	2,62
SR	02	-3,06	2,90
	04	-3,29	2,91
	06	-3,82	2,92
	08	-5,46	2,94

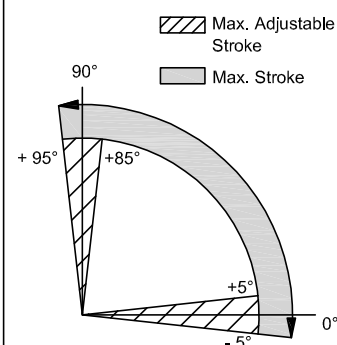
Actuator dimension					
SPRING SET	02	04	06		DA
A1	12,01	12,01	12,01	12,01	12,01
A2	24,33	24,33	24,33	24,33	24,33
A3	15,79	15,79	15,79	15,79	15,79
A4	23,90	23,90	23,90	23,90	23,90
A5	14,49	14,49	14,49	14,49	14,49
A6	11,50	11,50	11,50	11,50	11,50
A7	4,53	4,53	4,53	4,53	4,53
A8	6,54	6,54	6,54	6,54	6,54
B1	56,54	56,54	56,54	59,88	-
B2	32,20	32,20	32,20	35,55	-
B3	24,76	24,76	24,76	28,11	-
B4	18,78	18,78	18,78	22,13	9,21
BDA	-	-	-	-	33,54
B6	17,95	17,95	17,95	17,95	-
B7	14,02	14,02	14,02	14,02	-
WEIGHT (lbs)	653	662	682	719	397

Pressure connection		ISO 5211 Interface		
PORT 2 AND 4	G3/8"		STD	OPTIONAL
	3/8"NPT	ISO 5211	F25	
	C1	1,18	F1	M16X1,18
	C2	35°	F2	10,00
Ancillary Attachment	C3	9,88	F3	2,83H7
	SIZE	AA5	F4	0,787D10
	C4	7,87	Connection keyed bore depth	8,70
	C5	1,97		
HOLES	M6			

DOUBLE ACTING



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°	921	842	885	903	0,7	0,7	1,7 ÷ 2,6	1,6 ÷ 2,4	-40 to +176	+5 to +302	-

Note:

A- Moving time test conditions: 90° stroke; Kv Supply system 2,0; 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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Model
AT-HD-085-P285I

T.D.S. n° **AT-HD-085-P285I**

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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	18.629	18.141	23.287	22.676	27.944	27.212	32.601	31.747	37.259	36.282	46.573	45.353	55.888	54.423	M.O.P. exceeded	
Run	10.857	10.574	13.572	13.218	16.286	15.861	19.000	18.505	21.715	21.148	27.143	26.435	32.572	31.723		
End	20.699	20.162	25.874	25.203	31.049	30.243	36.224	35.284	41.399	40.324	51.748	50.406	62.098	60.487		

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 02	Start	13.276	9.602	14.259	18.916	23.574						
	Run	5.793	5.065	7.779	10.493	13.208						
	End	9.028	7.423	12.598	17.773	22.948						
SPRING SET 04	Start	19.914			14.402	19.060	23.717	33.032				
	Run	8.689			7.597	10.311	13.026	18.454				
	End	13.542			11.135	16.310	21.484	31.834				
SPRING SET 06	Start	30.978					16.194	25.509	34.823			
	Run	13.516					8.198	13.627	19.056			
	End	21.065					10.421	20.771	31.120			
SPRING SET 08	Start	42.041						17.985	27.300	41.272		
	Run	18.343						8.800	14.229	22.372		
	End	28.588						9.707	20.057	35.581		

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	27.858	14.343	34.823	17.929	41.787	21.515	48.752	25.101	55.717	28.687	M.O.P. exceeded					
Run	10.630	10.529	13.287	13.162	15.945	15.794	18.602	18.426	21.260	21.059						
End	15.717	29.520	19.646	36.900	23.575	44.280	27.504	51.660	31.434	59.040						

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 02	Start	10.656	14.219	21.183	28.148	35.112					M.O.P. exceeded	
	Run	6.190	4.440	7.098	9.755	12.413						
	End	13.640	5.061	8.990	12.919	16.848						
SPRING SET 04	Start	15.993			21.317	28.281	35.246	49.175			M.O.P. exceeded	
	Run	9.290			6.655	9.313	11.970	17.285				
	End	20.471			7.582	11.511	15.440	23.299				
SPRING SET 06	Start	24.888					23.844	37.773	51.702		M.O.P. exceeded	
	Run	14.459					6.801	12.116	17.431			
	End	31.872					6.545	14.404	22.262			
SPRING SET 08	Start	33.801						26.383	40.312	61.206		
	Run	19.633						6.942	12.256	20.229		
	End	43.262						5.491	13.349	25.137		

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

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

- TORQUES / POSITIONS:

