



AIR TORQUE

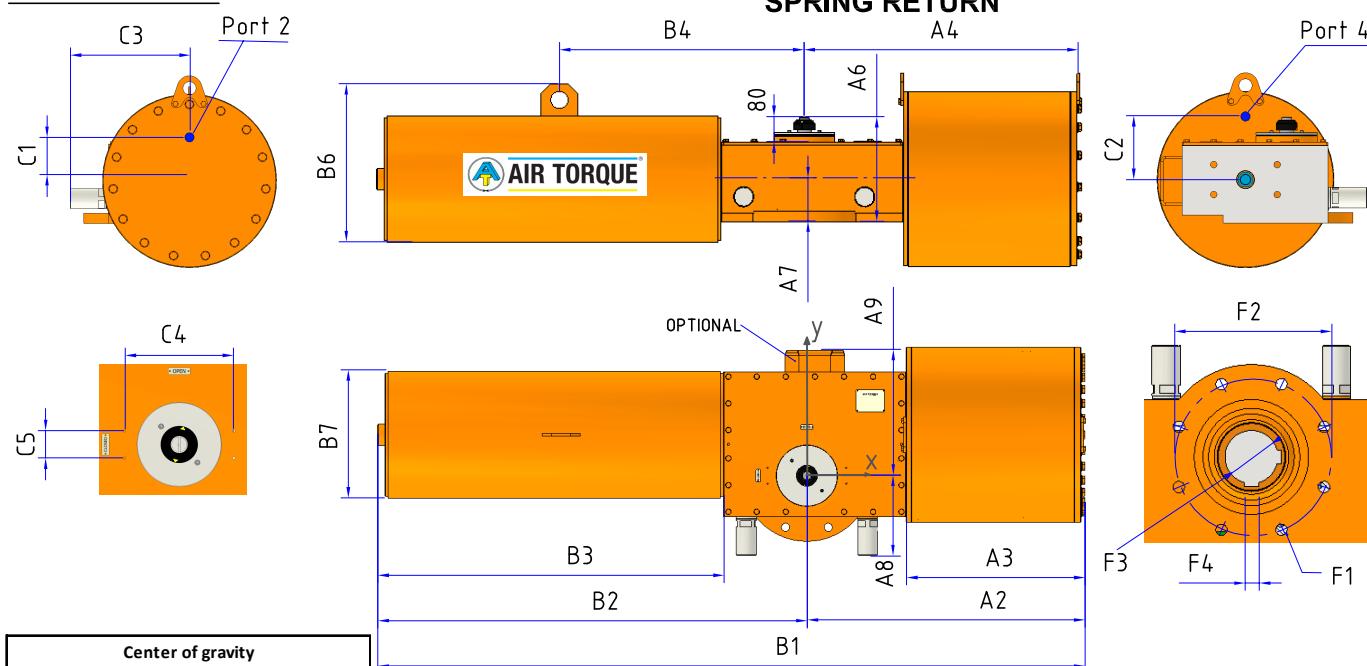
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Model
AT-HD-130-P435I

T.D.S. n° AT-HD-130-P435I

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Dimensions in inches

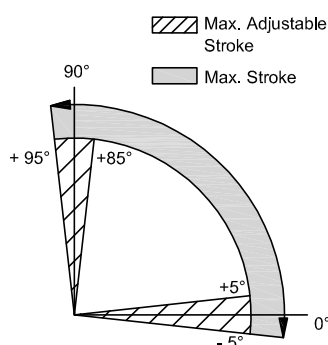


Center of gravity			
	SET	X	Y
DA	-	12,38	5,14
SR	02	-7,43	4,61
	04	-12,04	4,71
	06	-12,22	4,73
	08	-13,66	4,75

Actuator dimension					
SPRING SET	02	04	06	08	DA
A1	18,03	18,03	18,03	18,03	18,03
A2	34,80	34,80	34,80	34,80	34,80
A3	22,32	22,32	22,32	22,32	22,32
A4	34,37	34,37	34,37	34,37	34,37
A5	20,43	20,43	20,43	20,43	20,43
A6	13,23	13,23	13,23	13,23	13,23
A7	5,39	5,39	5,39	5,39	5,39
A8	9,96	9,96	9,96	9,96	9,96
A9	15,67	15,67	15,67	15,67	15,67
B1	88,58	92,91	90,75	92,91	-
B2	53,78	58,11	55,94	58,11	-
B3	43,35	47,68	45,51	47,68	-
B4	30,75	32,52	30,35	32,52	11,61
BDA	-	-	-	-	47,09
B6	19,92	23,94	23,94	23,94	-
B7	15,98	20,00	20,00	20,00	-
WEIGHT (lbs)	1691	2000	2068	2152	929

Pressure connection		ISO 5211 Interface		
PORT 2 AND 4	G3/4"		STD	OPTIONAL
	3/4"NPT	ISO 5211	F35	F30
		F1	M30X1,18	M20X1,18
C1	4,72	F2	14,02	11,73
C2	6,30	F3	4,72H7	4,72H7
C3	15,08	F4	1,26D10	1,26D10
Ancillary Attachment		Connection keyed bore depth	10,43	10,43
SIZE	-			
C4	9,84			
C5	1,97			
HOLES	M6			

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		Operating temperature range (°F)		
	opening	closing	opening	closing	opening	closing	opening	closing	S	H	L
0°-90°	3291	2941	3228	3187	1,3	1,2	3,1 ÷ 4,6	2,8 ÷ 4,1	-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: 265.522 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	67.187	66.451	83.984	83.064	100.781	99.677	117.578	116.290	134.375	132.903	167.968	166.128	201.562	199.354	M.O.P. exceeded	
Run	39.169	38.741	48.962	48.426	58.754	58.111	68.547	67.796	78.339	77.481	97.924	96.851	117.508	116.222		
End	74.652	73.835	93.315	92.294	111.979	110.752	130.642	129.211	149.305	147.670	186.631	184.587	223.957	221.505		

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	75.231		32.827	49.624	66.420	83.217					
	Run	32.825		16.137	25.929	35.721	45.514					
	End	51.157		18.084	36.747	55.410	74.073					
SPRING SET 04	Start	106.209				45.356	62.152	95.746	129.340			
	Run	46.341				22.205	31.998	51.582	71.167			
	End	72.222				24.433	43.096	80.422	117.748			
SPRING SET 06	Start	132.761						75.035	108.629	159.019		
	Run	58.707						39.217	58.801	88.179		
	End	92.933						53.870	91.196	147.185		
SPRING SET 08	Start	159.313							93.229	143.619		
	Run	69.512							47.996	77.373		
	End	108.333							64.644	120.633		

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	104.120	51.168	130.150	63.960	156.180	76.752	182.210	89.544	208.240	102.336	M.O.P. exceeded					
Run	38.253	38.080	47.817	47.601	57.380	57.121	66.943	66.641	76.507	76.161						
End	55.842	110.924	69.802	138.655	83.763	166.386	97.723	194.117	111.684	221.848						

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	59.309		49.198	75.228	101.258	127.288	179.348				
	Run	35.187		12.629	22.193	31.756	41.319	60.446				
	End	80.952		10.493	24.454	38.414	52.375	80.296				
SPRING SET 04	Start	83.843					93.801	145.861	197.921			
	Run	49.743					26.763	45.890	65.017			
	End	114.439					27.841	55.762	83.683			
SPRING SET 06	Start	104.430						113.681	165.741	243.831		
	Run	62.520						33.113	52.240	80.930		
	End	146.619						35.175	63.096	104.977		
SPRING SET 08	Start	125.760							140.708	218.798		
	Run	74.612							40.148	68.838		
	End	171.652							41.765	83.647		

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

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

- TORQUES / POSITIONS:

