



AIR TORQUE

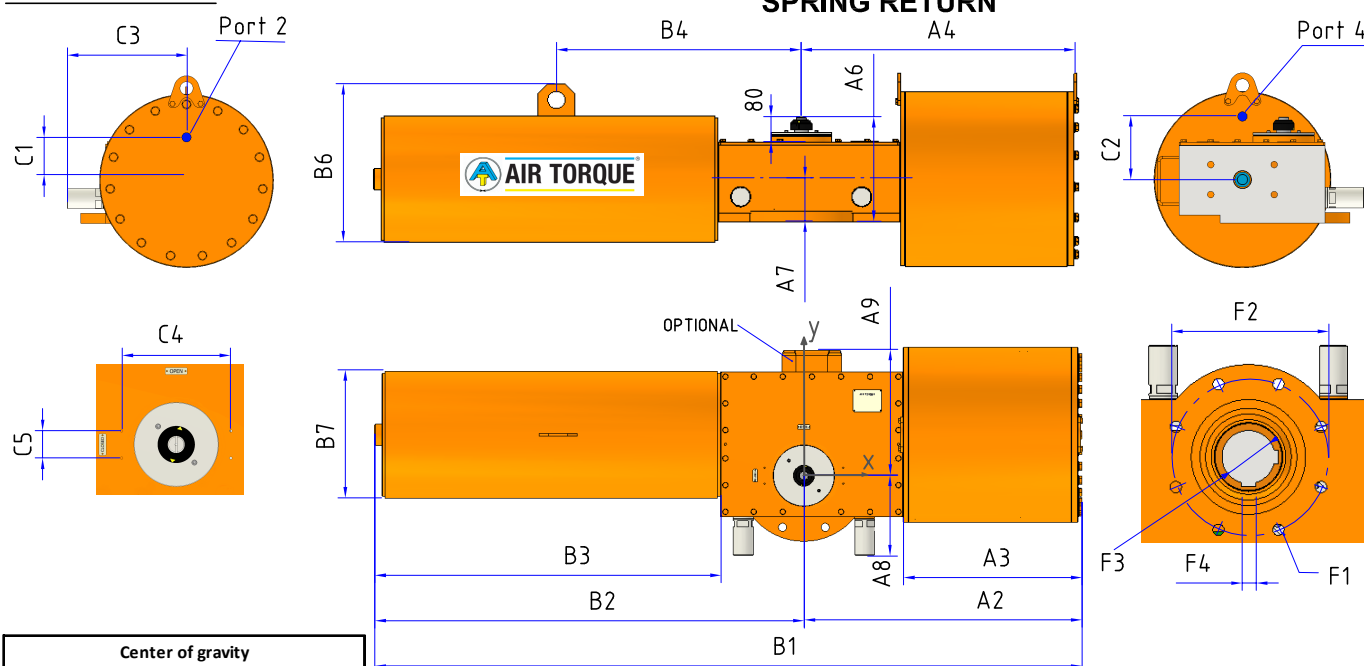
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Model
AT-HD-130-P585I

T.D.S. n° AT-HD-130-P585I

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Dimensions in inches

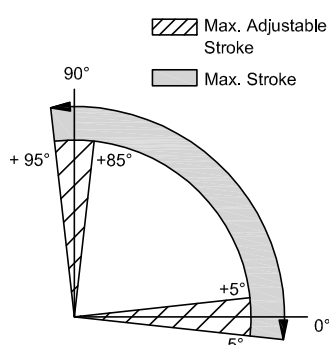


Center of gravity			
	SET	X	Y
DA	-	16,70	4,46
SR	02	-0,65	4,75
	04	-5,30	4,81
	06	-5,64	4,82
	08	-7,05	4,84

Actuator dimension					
SPRING SET	02	04	06	08	DA
A1	24,02	24,02	24,02	24,02	24,02
A2	36,06	36,06	36,06	36,06	36,06
A3	23,62	23,62	23,62	23,62	23,62
A4	35,55	35,55	35,55	35,55	35,55
A5	26,77	26,77	26,77	26,77	26,77
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	89,84	94,17	92,01	94,17	-
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	-	-	-	-	48,31
B6	19,921	23,937	23,937	23,937	-
B7	15,98	20,00	20,00	20,00	-
WEIGHT (lbs)	2121	2432	2498	2582	1361

Pressure connection		ISO 5211 Interface		
PORT 2 AND 4	G1"		STD	OPTIONAL
	1"NPT	ISO 5211	F35	F30
		F1	M30X1,18	M20X1,18
C1	7,09	F2	14,02	11,73
C2	8,66	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°	6163	5248	5919	5736	1,4	1,3	3,2 ÷ 4,8	2,7 ÷ 4,1	-40 to +176	+5 to +302	-

Note:

A- Moving time test conditions: 90° stroke; Kv Supply system 7,3; 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	122.238	121.502	152.797	151.877	183.357	182.253	213.916	212.628	M.O.P. exceeded							
Run	71.263	70.834	89.079	88.543	106.895	106.252	124.711	123.960								
End	135.820	135.002	169.775	168.753	203.729	202.504	237.684	236.254								

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	71.081	101.640							M.O.P. exceeded	
	Run	32.825	38.438	56.254								
	End	51.157	60.588	94.543								
SPRING SET 04	Start	106.209	50.016	80.575	111.135	141.694					M.O.P. exceeded	
	Run	46.341	24.922	42.738	60.554	78.370						
	End	72.222	29.611	63.566	97.521	131.475						
SPRING SET 06	Start	132.761			90.424	120.984	151.543				M.O.P. exceeded	
	Run	58.707			48.188	66.004	83.820					
	End	92.933			70.968	104.923	138.878					
SPRING SET 08	Start	159.313			75.024	105.583	136.143	197.262			M.O.P. exceeded	
	Run	69.512			37.383	55.199	73.015	108.647				
	End	108.333			44.416	78.371	112.326	180.236				

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	165.907	99.622	207.383	124.528	M.O.P. exceeded											
Run	70.215	70.139	87.769	87.674												
End	108.122	177.622	135.153	222.028												

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	84.955	126.432							M.O.P. exceeded	
	Run	35.187	35.028	52.582								
	End	80.952	48.813	75.844								
SPRING SET 04	Start	83.843		92.945	134.421	175.898					M.O.P. exceeded	
	Run	49.743		38.026	55.579	73.133						
	End	114.439		51.310	78.340	105.371						
SPRING SET 06	Start	104.430			102.241	143.717	185.194				M.O.P. exceeded	
	Run	62.520			42.802	60.356	77.910					
	End	146.619			57.753	84.784	111.814					
SPRING SET 08	Start	125.760				118.685	160.161	243.115			M.O.P. exceeded	
	Run	74.612				48.264	65.818	100.925				
	End	171.652				63.454	90.484	144.545				

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

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

- TORQUES / POSITIONS:

