



AIR TORQUE®

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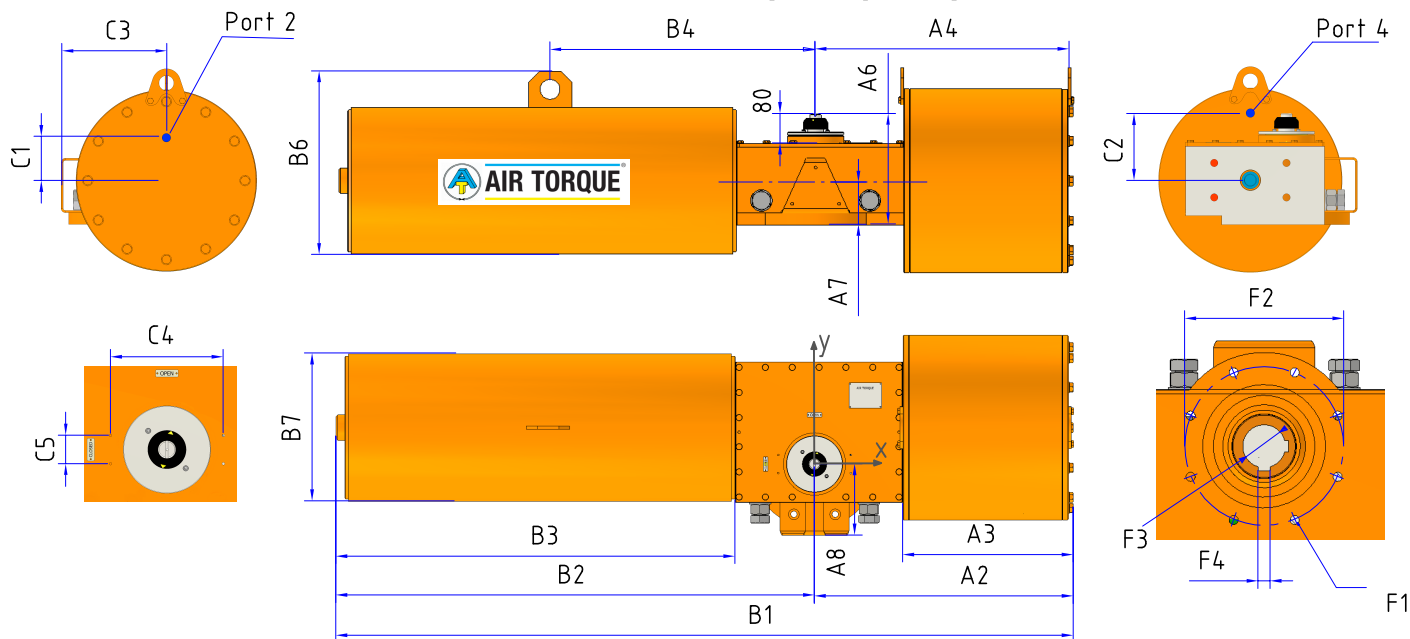
Model
AT-HD-100-P535I

T.D.S. n° AT-HD-100-P535I

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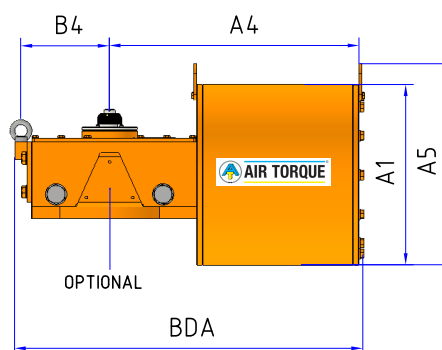
Dimensions in inches

SPRING RETURN



Center of gravity			
	SET	X	Y
DA	-	13,74	3,43
SR	02	2,48	3,59
	04	1,27	3,61
	06	0,57	3,61
	08	-5,22	3,65

DOUBLE ACTING



Actuator dimension					
SPRING SET	02	04	06	08	DA
A1	22,01	22,01	22,01	22,01	22,01
A2	28,74	28,74	28,74	28,74	28,74
A3	19,13	19,13	19,13	19,13	19,13
A4	28,35	28,35	28,35	28,35	28,35
A5	24,33	24,33	24,33	24,33	24,33
A6	12,09	12,09	12,09	12,09	12,09
A7	4,84	4,84	4,84	4,84	4,84
A8	7,72	7,72	7,72	7,72	7,72
B1	66,42	69,17	69,17	80,67	-
B2	37,68	40,43	40,43	51,93	-
B3	29,09	31,85	31,85	43,35	-
B4	21,54	22,72	22,72	28,90	9,76
BDA	-	-	-	-	39,25
B6	19,92	19,92	19,92	19,92	-
B7	15,98	15,98	15,98	15,98	-
WEIGHT (lbs)	1436,00	1486	1517	1742	979

Pressure connection

PORT 2 AND 4	G1"
	1"NPT
C1	5,51
C2	7,87
C3	11,57

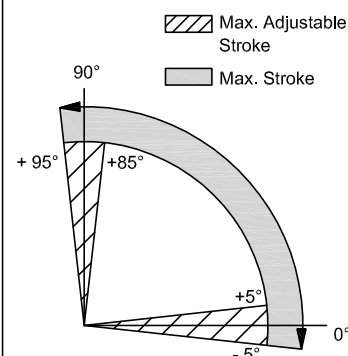
Ancillary Attachment

SIZE	AA5
C4	7,87
C5	1,97
HOLES	M6

ISO 5211 Interface

	STD	OPTIONAL
ISO 5211	F30	F25
F1	M20X1,18	M16X1,18
F2	11,73	10,00
F3	3,15H7	3,15H7
F4	0,866D10	0,866D10
Connection keyed bore depth	9,29	9,29

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°	3856	3528	3711	3757	0,9	0,8	2,0 ÷ 3,0	1,8 ÷ 2,8	-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: 141.611 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	78.516	77.950	98.145	97.437	117.774	116.925	M.O.P. exceeded									
Run	45.774	45.444	57.218	56.805	68.661	68.166										
End	87.240	86.611	109.050	108.264	130.860	129.917										

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	51.334	43.609	63.238						
	Run	22.398	23.376	34.819				M.O.P. exceeded		
	End	34.907	35.906	57.715						
SPRING SET 04	Start	61.955	36.387	56.016	75.645					
	Run	27.033	18.742	30.185	41.629				M.O.P. exceeded	
	End	42.130	25.285	47.095	68.905					
SPRING SET 06	Start	77.887		45.182	64.811	84.440				
	Run	33.984		23.234	34.677	46.121			M.O.P. exceeded	
	End	52.963		31.163	52.973	74.783				
SPRING SET 08	Start	92.933			54.580	74.209	93.838			
	Run	40.549			28.112	39.556	50.999		M.O.P. exceeded	
	End	63.194			37.927	59.737	81.547			

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	112.415	62.217	M.O.P. exceeded													
Run	44.943	44.871														
End	67.601	120.169														

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	50.175	51.312	79.416	107.520	135.623	M.O.P. exceeded			
	Run	28.636	16.307	27.543	38.779	50.015				
	End	61.104	17.426	34.326	51.226	68.126				
SPRING SET 06	Start	63.106		63.667	91.771	119.875	M.O.P. exceeded			
	Run	36.017		20.163	31.399	42.634				
	End	76.852		21.395	38.295	55.195				
SPRING SET 08	Start	76.285			75.169	103.273	131.377	M.O.P. exceeded		
	Run	43.626			23.789	35.025	46.261			
	End	93.454			25.116	42.017	58.917			

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

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

- TORQUES / POSITIONS:

