



AIR TORQUE

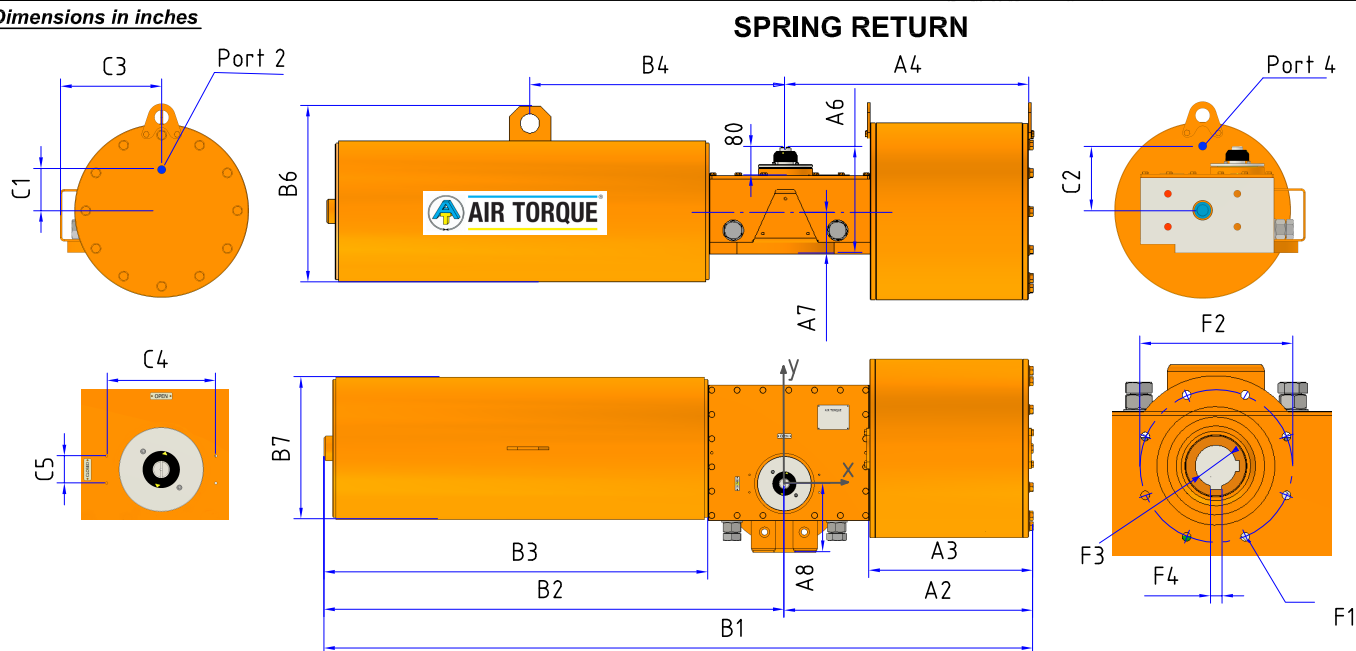
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Model
AT-HD-100-P585I

T.D.S. n° AT-HD-100-P585I

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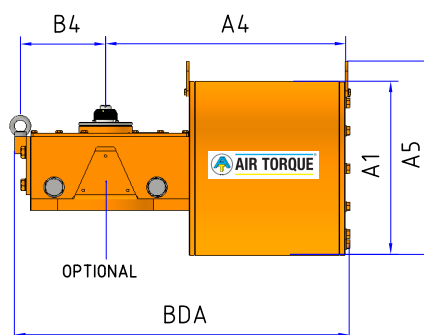
Dimensions in inches



Center of gravity			
	SET	X	Y
DA	-	14,84	3,51
SR	02	4,47	3,63
	04	3,42	3,64
	06	2,65	3,64
	08	-2,86	3,67

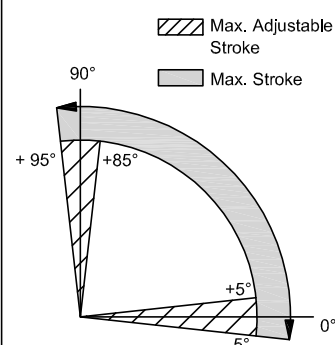
Actuator dimension					
SPRING SET	02	04	06	08	DA
A1	24,02	24,02	24,02	24,02	24,02
A2	29,29	29,29	29,29	29,29	29,29
A3	19,69	19,69	19,69	19,69	19,69
A4	28,98	28,98	28,98	28,98	28,98
A5	26,77	26,77	26,77	26,77	26,77
A6	12,09	12,09	12,09	12,09	12,09
A7	4,84	4,84	4,84	4,84	4,84
A8	7,72	7,72	7,72	7,72	7,72
B1	66,97	69,72	69,72	81,22	-
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	-	-	-	-	39,76
B6	19,92	19,92	19,92	19,92	-
B7	15,98	15,98	15,98	15,98	-
WEIGHT (lbs)	1068,00	1645	1689	1914	1151

DOUBLE ACTING



Pressure connection		ISO 5211 Interface		
PORT 2 AND 4	G1"		STD	OPTIONAL
	1"NPT	ISO 5211	F30	F25
		F1	M20X1,18	M16X1,18
C1	7,09	F2	11,73	10,00
C2	8,66	F3	3,15H7	3,15H7
C3	11,65	F4	0,866D10	0,866D10
Ancillary Attachment		Connection keyed bore depth	9,29	9,29
SIZE	AA5			
C4	7,87			
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°	4699	4211	4516	4455	1,1	0,9	2,5 ÷ 3,7	2,2 ÷ 3,3	-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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SIMMETRIC 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	94.029	93.463	117.537	116.829	M.O.P. exceeded											
Run	54.818	54.488	68.523	68.110												
End	104.477	103.848	130.596	129.810												

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	59.122					M.O.P. exceeded		
	Run	22.398	32.420							
	End	34.907	53.142							
SPRING SET 04	Start	61.955	51.900	75.407	98.914			M.O.P. exceeded		
	Run	27.033	27.786	41.490	55.195					
	End	42.130	42.521	68.641	94.760					
SPRING SET 06	Start	77.887	41.066	64.574	88.081	111.588		M.O.P. exceeded		
	Run	33.984	20.834	34.539	48.243	61.948				
	End	52.963	26.590	52.709	78.828	104.948				
SPRING SET 08	Start	92.933		54.342	77.849	101.357	124.864	M.O.P. exceeded		
	Run	40.549		27.974	41.678	55.383	69.087			
	End	63.194		37.663	63.782	89.901	116.020			

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	M.O.P. exceeded															
Run																
End																

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	73.523	107.179				M.O.P. exceeded		
	Run	28.636	25.187	38.643						
	End	61.104	30.782	51.022						
SPRING SET 06	Start	63.106	57.774	91.431	125.088			M.O.P. exceeded		
	Run	36.017	17.807	31.263	44.718					
	End	76.852	17.851	38.091	58.330					
SPRING SET 08	Start	76.285		74.829	108.485			M.O.P. exceeded		
	Run	43.626		23.653	37.109					
	End	93.454		24.912	45.151					

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

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

- TORQUES / POSITIONS:

