



AIR TORQUE®

AIR TORQUE S.p.A.
via dei Livelli di Sopra, 8/11
24060 Costa di Mezzate(Bg) Italy
Tel.: +39 035 682299
Fax: +39 035 687791
E-mail: info@airtorque.it



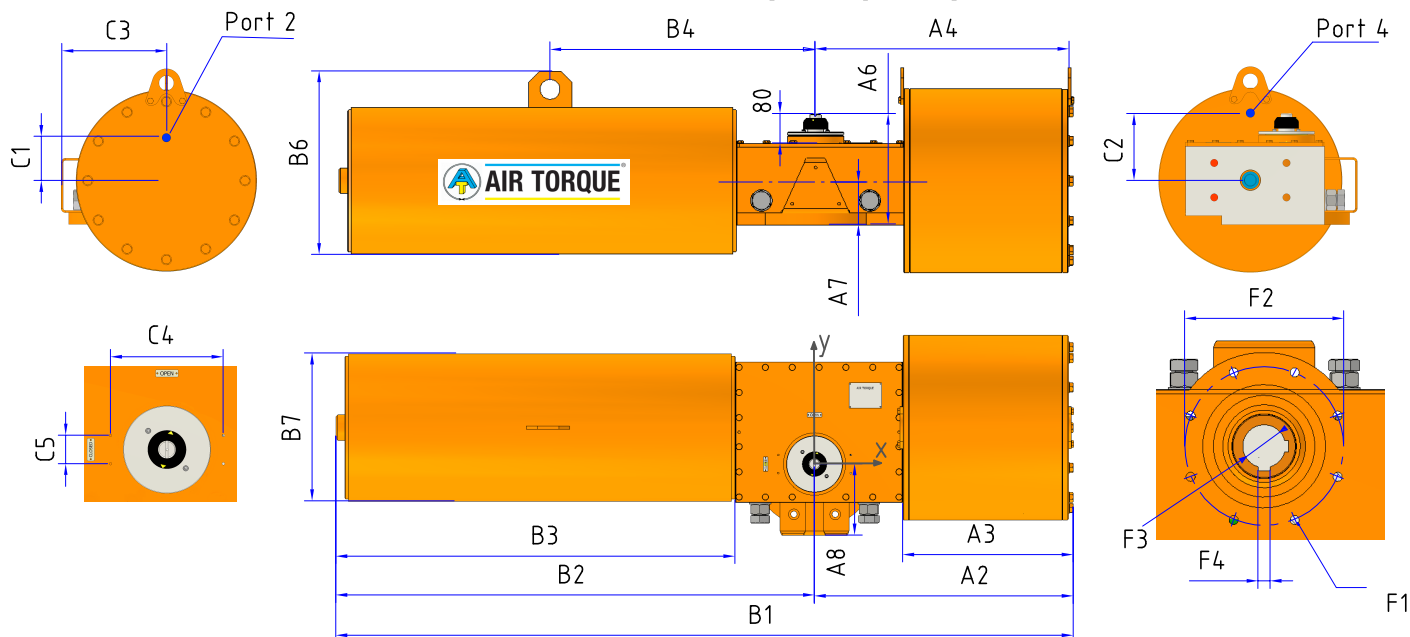
Model
AT-HD-100-P485I

T.D.S. n° AT-HD-100-P485I

Issued on: 08/14 - Page 1/2

Dimensions in inches

SPRING RETURN



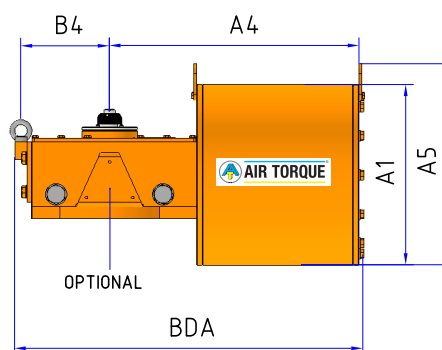
Center of gravity

	SET	X	Y
DA	-	12,60	3,39
SR	02	0,73	3,58
	04	-0,38	3,60
	06	-1,17	3,61
	08	-7,48	3,65

Actuator dimension

SPRING SET	02	04	06	08	DA
A1	20,00	20,00	20,00	20,00	20,00
A2	28,07	28,07	28,07	28,07	28,07
A3	18,46	18,46	18,46	18,46	18,46
A4	27,72	27,72	27,72	27,72	27,72
A5	22,32	22,32	22,32	22,32	22,32
A6	12,09	12,09	12,09	12,09	12,09
A7	4,82	4,82	4,82	4,82	4,82
A8	7,72	7,72	7,72	7,72	7,72
B1	65,75	68,50	68,50	80,00	-
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	-	-	-	-	38,62
B6	19,92	19,92	19,92	19,92	-
B7	15,98	15,98	15,98	15,98	-
WEIGHT (lbs)	1312	1350	1394	1619	856

DOUBLE ACTING



Pressure connection

PORT 2 AND 4	G3/4"
C1	4,72
C2	7,28
C3	11,65

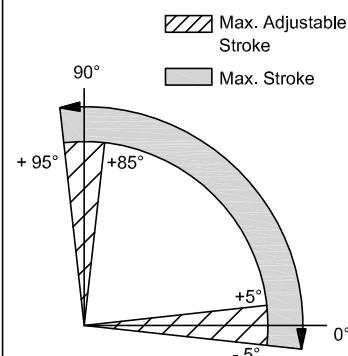
Ancillary Attachment

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		S H L		
	opening	closing	opening	closing	opening	closing	opening	closing			
0°-90°	3051	2746	2929	2929	1,2	1,1	2,9 ÷ 4,3	2,6 ÷ 3,9	-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: 141.611 lbin (see M.O.P. for different configuration).



AIR TORQUE®

AIR TORQUE S.p.A.
via dei Livelli di Sopra, 8/11
24060 Costa di Mezzate (Bg) Italy
Tel.: +39 035 682299
Fax: +39 035 687791
E-mail: info@airtorque.it

Model
AT-HD-100-P485I
T.D.S. n° **AT-HD-100-P485I**
Issued on: 08/14 - Page 2/2

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	64.401	63.834	80.501	79.793	96.601	95.751	112.701	111.710	M.O.P. exceeded							
Run	37.545	37.215	46.931	46.519	56.317	55.822	65.703	65.126								
End	71.556	70.927	89.445	88.659	107.334	106.391	125.223	124.123								

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	29.493	45.593	61.693				M.O.P. exceeded	
	Run	22.398	15.146	24.533	33.919					
	End	34.907	20.222	38.111	56.000					
SPRING SET 04	Start	61.955		38.371	54.471	70.571	86.671		M.O.P. exceeded	
	Run	27.033		19.899	29.285	38.671	48.057			
	End	42.130		27.490	45.379	63.268	81.157			
SPRING SET 06	Start	77.887			43.638	59.738	75.838	108.038	M.O.P. exceeded	
	Run	33.984			22.334	31.720	41.106	59.878		
	End	52.963			29.447	47.336	65.225	101.003		
SPRING SET 08	Start	92.933				49.507	65.607	97.807	130.007	M.O.P. exceeded
	Run	40.549				25.155	34.541	53.313	72.086	
	End	63.194				32.290	50.179	85.957	121.735	

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	92.205	50.951	115.257	63.689	M.O.P. exceeded											
Run	36.864	36.746	46.079	45.932												
End	55.447	98.408	69.309	123.010												

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	41.696	41.425	64.476	87.528			M.O.P. exceeded		
	Run	23.798	13.066	22.282	31.498					
	End	50.781	13.752	27.613	41.475					
SPRING SET 04	Start	50.175		54.153	77.205	100.256		M.O.P. exceeded		
	Run	28.636		17.443	26.659	35.875				
	End	61.104		19.134	32.996	46.858				
SPRING SET 06	Start	63.106			61.456	84.508	107.559	M.O.P. exceeded		
	Run	36.017			19.279	28.495	37.711			
	End	76.852			20.065	33.927	47.789			
SPRING SET 08	Start	76.285				67.905	90.957	137.059	M.O.P. exceeded	
	Run	43.626				20.885	30.101	48.533		
	End	93.454				20.748	34.610	62.334		

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

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

- TORQUES / POSITIONS:

