



# PNEUMATIC TORQUE OUTPUT & OPERATION INFORMATION

## ABZ80 - ABZ1750

### SPRING RETURN TORQUE (in. lbs.)

MODEL	SPRINGS/ SIDE (5 STD.)	SPRING TORQUE		AIR SUPPLY							
		END	BREAK	40 psi		60 psi		80 psi		100 psi	
				END	BREAK	END	BREAK	END	BREAK	END	BREAK
80SR	2	86	160	185	259	358	432				
	3	128	245	101	218	273	390	447	564		
	4	170	330			188	348	362	522	536	696
	5	215	410			109	304	282	477	455	651
	6	260	490					202	432	375	605
130SR	2	120	226	233	339	473	579				
	3	185	343	117	275	356	514	586	744		
	4	250	460			239	449	469	679	720	930
	5	315	573			127	385	357	614	607	864
	6	380	685					244	549	494	799
200SR	2	168	310	339	481	669	811				
	3	252	460	190	398	519	727	849	1,057		
	4	336	610			369	643	699	973	1,030	1,304
	5	420	760			220	560	549	889	879	1,219
	6	504	910					399	805	729	1,135
300SR	2	350	644	745	1,039	1,445	1,739				
	3	525	962	428	865	1,127	1,564	1,827	2,264		
	4	700	1,280			809	1,389	1,509	2,089	2,200	2,780
	5	880	1,605			485	1,210	1,184	1,909	1,874	2,599
	6	1,060	1,930					859	1,729	1,549	2,419
500SR	2	530	920	1,109	1,499	2,129	2,519				
	3	795	1,380	650	1,235	1,669	2,254	2,679	3,264		
	4	1,060	1,840			1,209	1,989	2,219	2,999	3,231	4,010
	5	1,325	2,300			750	1,725	1,759	2,734	2,769	3,744
	6	1,590	2,760					1,299	2,469	2,309	3,479
850SR	2	740	1,230	1,499	1,989	2,929	3,419				
	3	1,100	1,835	1,095	1,830	2,324	3,059	3,644	4,379		
	4	1,460	2,440			1,719	2,699	3,039	4,019	4,320	4,300
	5	1,815	3,050			1,110	2,345	2,429	3,664	3,709	4,944
	6	2,170	3,660					1,819	3,309	3,099	4,589
1200SR	2	1,050	1,820	2,029	2,799	4,189	4,959				
	3	1,575	2,730	1,120	2,275	3,279	4,434	5,169	6,324		
	4	2,100	3,640			2,369	3,909	4,259	5,799	6,140	7,680
	5	2,625	4,550			1,460	3,385	3,349	5,274	5,169	7,094
	6	3,150	5,460					2,439	4,749	4,259	6,569
1750SR	2	1,390	2,430	3,049	4,089	6,124	7,164				
	3	2,085	3,645	1,835	3,395	4,909	6,469	7,664	9,224		
	4	2,780	4,860			3,694	5,774	6,449	8,529	9,100	11,180
	5	3,475	6,075			2,480	5,080	5,234	7,834	7,884	10,484
	6	4,170	7,290					4,019	7,139	6,669	9,789



# PNEUMATIC TORQUE OUTPUT & OPERATION INFORMATION

## ABZ40 - ABZ1750 DOUBLE ACTING TORQUE (in. lbs.)

### AIR SUPPLY

MODEL	40 psi	60 psi	80 psi	100 psi	120 psi
40DA	164	245	327	409	491
80DA	352	528	703	879	1,055
130DA	527	791	1,054	1,318	1,581
200DA	716	1,073	1,431	1,789	2,147
300DA	1,217	1,825	2,434	3,042	3,651
500DA	1,749	2,624	3,498	4,373	5,247
850DA	3,282	4,923	6,565	8,206	9,847
1200DA	4,510	6,765	9,020	11,275	13,530
1750DA	5,729	8,586	11,448	14,311	17,173

Model	WEIGHT (lbs.)	CYCLE TIME
	Weight	Sec / 90°
40DA	5	0.6
80DA	7	1.0
130DA	11	1.2
200DA	14	1.5
300DA	22	2.0
500DA	29	2.5
850DA	57	3.0
1200DA	79	4.0
1750DA	104	5.0
2500DA	98	5.0
3500DA	125	9.0

NOTE: Torques are actual. Please be sure to include appropriate safety factors and all service condition variables when sizing.

3-way (primary/secondary) assemblies should use a 35% safety factor. Call factory for assistance.

Valves 14" and larger or actuators 1750 and larger will require a mounting bracket.

40SR	6	0.6
80SR	11	1.0
130SR	14	1.2
200SR	18	1.5
300SR	29	2.0
500SR	39	2.5
850SR	69	3.0
1200SR	101	4.0
1750SR	134	5.0
2500SR	137	5.0
3500SR	195	9.0

## ABZ2500 – ABZ3500

### DOUBLE ACTING TORQUE (in. lbs.)

#### ABZ 2500DA

	0°	40°	90°
60 psi	13,334	6,667	11,610
80 psi	17,778	8,890	15,483
100psi	22,223	11,110	19,350

#### ABZ 3500DA

	0°	40°	90°
60 psi	26,650	13,330	23,200
80 psi	35,550	17,750	30,960
100psi	44,440	22,200	38,700

### SPRING RETURN TORQUE (in. lbs.)

#### ABZ 2500SR

	AIR BREAK	RUN	AIR END	SPRING BREAK	RUN	SPRING END
	0°	60°	90°	90°	30°	0°
60 psi	6,890	2,852	4,039	7,224	2,974	4,241
80 psi	9,152	3,784	5,368	9,592	3,960	5,632
100psi	11,510	4,744	6,758	12,038	4,972	7,066

#### ABZ 3500SR

	AIR BREAK	RUN	AIR END	SPRING BREAK	RUN	SPRING END
	0°	60°	90°	90°	30°	0°
60 psi	13,780	5,702	8,078	14,449	5,948	8,483
80 psi	18,304	7,568	10,736	19,184	7,920	11,264
100psi	22,968	9,486	13,464	24,076	11,264	14,132

NOTE: ABZ2500 and ABZ 3500 are scotch yoke design.