

Subject to change without notice

VALVE AUTOMATION SYSTEMS

ELCO-MATIC[®]
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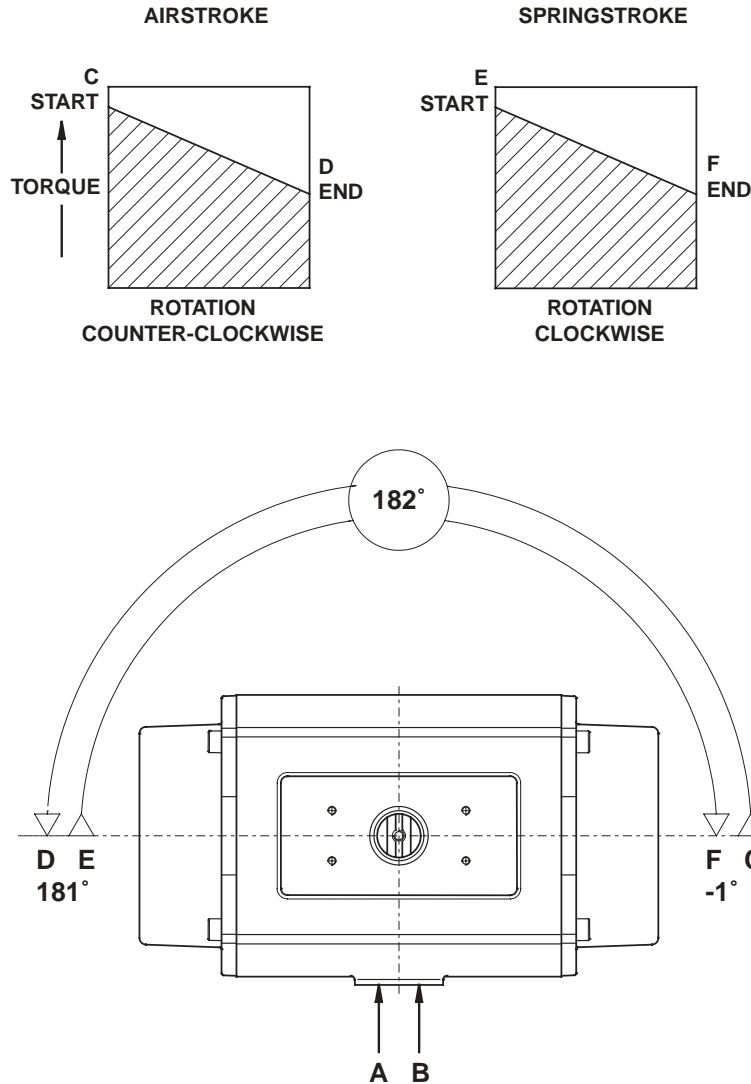
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Nr.:

A 1.204.02

Date:

March '06



Note:

1. Actuator torques are guaranteed minimum torque values. Emerson Process Management recommends that the valve manufacturer supply the maximum required torque values (Including any adjustments or suggested safety factors for valve service conditions or application). Additionally, the valve manufacturer must identify at which position(s) and direction(s) of rotation (Counter Clock Wise or Clock Wise) these maximum requirements occur.
2. If in doubt, or you require any assistance with sizing actuators, do not hesitate to contact your nearest Emerson's Valve Automation Division representative.

Spring nr.	Actuator type	Air Stroke (in.lb.)										Spring Stroke (in.lb.)	
		SUPPLY PRESSURE (PSI)										E	F
		40		50		60		70		80			
		C	D	C	D	C	D	C	D	C	D		
ES 12	2	-	-	33	9	49	25	65	41	81	57	63	41
PS 60	8	70	19	105	55	141	90	176	125	212	161	112	62
	10	-	-	88	24	123	60	159	95	194	131	141	78
	12	-	-	-	-	106	30	142	65	177	101	169	93
	14	-	-	-	-	-	-	124	35	160	71	197	109
PS150	8	185	76	274	165	364	255	453	344	543	433	258	150
	10	-	-	233	96	322	186	411	275	501	365	322	187
	12	-	-	-	-	280	117	370	206	459	296	387	225
	14	-	-	-	-	239	48	328	137	418	227	451	262
PS280	8	-	-	493	193	662	361	830	530	999	698	597	303
	10	-	-	-	-	578	202	746	370	915	539	746	379
	12	-	-	-	-	-	-	662	211	830	379	896	455
	14	-	-	-	-	-	-	-	-	746	220	1,045	531
PS500	8	-	-	965	256	1,263	554	1,561	852	1,859	1,149	1,134	452
	10	-	-	-	-	1,138	251	1,435	549	1,733	847	1,417	565
	12	-	-	-	-	-	-	-	-	1,608	544	1,701	678
	14	-	-	-	-	-	-	-	-	-	-	1,984	791
PS750	8	-	-	1,470	549	1,913	992	2,356	1,434	2,799	1,877	1,529	641
	10	-	-	-	-	1,735	583	2,178	1,026	2,621	1,469	1,912	801
	12	-	-	-	-	-	-	2,000	618	2,443	1,060	2,294	961
	14	-	-	-	-	-	-	-	-	2,265	652	2,676	1,121
PS1100	8	1,454	430	2,108	1,083	2,761	1,736	3,414	2,389	4,067	3,043	1,999	1,000
	10	-	-	1,830	549	2,483	1,202	3,136	1,855	3,790	2,509	2,499	1,250
	12	-	-	-	-	2,205	668	2,858	1,321	3,512	1,975	2,999	1,500
	14	-	-	-	-	-	-	2,581	787	3,234	1,441	3,499	1,750
PS2500	8	2,625	890	4,124	2,389	5,622	3,888	7,121	5,386	8,620	6,885	4,675	2,934
	10	-	-	3,309	1,140	4,807	2,639	6,306	4,137	7,804	5,636	5,844	3,668
	12	-	-	2,494	-109	3,992	1,390	5,491	2,889	6,989	4,387	7,013	4,401
	14	-	-	-	-	3,177	141	4,676	1,640	6,174	3,138	8,182	5,135
PS4000	8	4,475	1,548	7,015	4,088	9,555	6,628	12,096	9,169	14,636	11,709	7,890	4,952
	10	-	-	5,639	1,981	8,180	4,521	10,720	7,061	13,260	9,602	9,863	6,190
	12	-	-	4,264	-127	6,804	2,414	9,344	4,954	11,885	7,494	11,835	7,429
	14	-	-	-	-	5,428	306	7,969	2,847	10,509	5,387	13,808	8,667

- 3 Pressure on port "A" opens the actuator*
- 4 The actuator is shown in closed position*
- 5 Do not exceed the maximum supply pressure of 6 bar.

(*code A, data sheet A 1.504).

180° SPRING RETURN ACTUATOR TORQUE (in.lb)

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