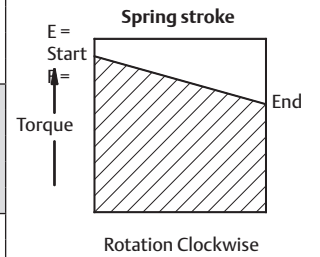
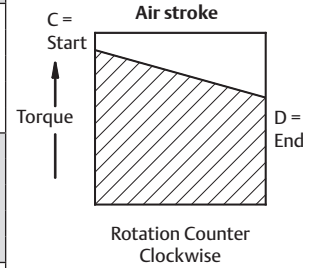


FieldQ Actuator Torque

Spring Return Actuators - Nm

Spring set nr.	Air Torque (Nm)																Spring Torque (Nm)		
	Supply pressure (bar g)																E	F	
	3		3.5		4		4.5		5		5.5		6		7				
Actuator Size	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	E	F	
QS 40	2	17	11	22	16	26	21	31	25	35	30	40	34	44	39	53	48	13	8
	3	12	4	17	8	21	13	26	17	31	22	35	27	40	31	49	40	20	12
	4	-	-	12	1	17	5	21	10	26	14	30	19	35	23	44	32	26	17
	5	-	-	-	-	-	-	17	2	21	7	26	11	30	16	39	25	33	21
	6	-	-	-	-	-	-	-	-	-	-	21	4	25	8	34	17	40	25
QS65	2	26	17	32	23	39	30	46	37	53	44	60	51	67	58	81	72	21	13
	3	18	4	25	11	32	18	39	25	45	32	52	39	59	46	73	60	32	20
	4	-	-	-	-	24	6	31	13	38	20	45	27	52	34	65	48	42	26
	5	-	-	-	-	-	-	23	1	30	8	37	15	44	22	58	35	53	33
	6	-	-	-	-	-	-	-	-	-	-	30	3	36	10	50	23	63	40
QS 100	2	39	27	49	37	60	47	70	57	80	67	90	78	100	88	121	108	29	18
	3	29	10	39	20	49	30	59	40	70	51	80	61	90	71	110	91	44	27
	4	-	-	28	3	39	13	49	24	59	34	69	44	79	54	100	75	58	36
	5	-	-	-	-	-	-	38	7	49	17	59	27	69	38	89	58	73	46
	6	-	-	-	-	-	-	-	38	0	48	11	59	21	79	41	88	55	-
QS 150	2	63	41	79	58	95	74	112	90	128	107	144	123	161	139	193	172	48	29
	3	46	14	62	30	79	47	95	63	111	79	128	96	144	112	177	145	72	44
	4	-	-	-	-	62	19	78	36	94	52	111	68	127	85	160	117	95	58
	5	-	-	-	-	-	-	-	78	24	94	41	110	57	143	90	119	119	73
	6	-	-	-	-	-	-	-	-	-	-	-	-	94	30	126	62	143	88
QS 200	2	85	57	107	79	130	101	152	124	174	146	197	168	219	191	264	236	65	41
	3	61	19	84	41	106	64	129	86	151	109	173	131	196	153	240	198	98	61
	4	-	-	60	4	83	26	105	49	127	71	150	93	172	116	217	160	131	82
	5	-	-	-	-	-	-	82	11	104	33	126	56	149	78	193	123	163	102
	6	-	-	-	-	-	-	-	-	-	-	103	18	125	41	170	85	196	123
QS 350	2	144	96	183	135	221	174	260	213	299	251	338	290	377	329	454	407	116	74
	3	101	30	140	68	179	107	217	146	256	185	295	224	334	263	412	340	174	112
	4	-	-	97	2	136	41	175	80	214	118	252	157	291	196	369	274	232	149
	5	-	-	-	-	-	-	132	13	171	52	210	91	248	130	326	207	289	186
	6	-	-	-	-	-	-	-	-	-	-	167	24	206	63	283	141	347	223
QS 600	2	249	166	315	232	381	298	447	364	513	430	579	496	645	562	777	694	195	122
	3	179	54	245	120	311	186	377	252	443	318	509	384	575	450	707	582	292	183
	4	-	-	174	8	240	74	306	140	372	206	438	272	504	338	636	470	389	245
	5	-	-	-	-	-	-	236	28	302	94	368	160	434	226	566	358	487	306
	6	-	-	-	-	-	-	-	-	-	-	298	48	364	114	496	246	584	367
QS 950	2	375	248	474	347	572	446	671	544	769	643	868	741	966	840	1163	1037	290	179
	3	272	82	371	181	469	279	568	378	666	476	765	575	863	673	1060	870	434	269
	4	-	-	268	14	366	113	465	211	563	310	662	408	760	507	957	704	579	359
	5	-	-	-	-	-	-	362	45	460	143	559	242	657	340	854	537	724	448
	6	-	-	-	-	-	-	-	-	-	-	455	75	554	174	751	371	869	538
QS 1600	2	617	416	780	579	943	742	1106	905	1269	1068	1432	1231	1594	1394	1920	1719	474	299
	3	445	144	608	307	771	470	934	633	1097	796	1260	959	1423	1121	1748	1447	711	449
	4	-	-	436	35	599	198	762	361	925	523	1088	686	1251	849	1576	1175	947	598
	5	-	-	-	-	-	-	590	88	753	251	916	414	1079	577	1405	903	1184	748
	6	-	-	-	-	-	-	-	-	-	-	744	142	907	305	1233	630	1421	897

Spring return torque diagrams



Note:

- Emerson 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.
- If in doubt, or you require any assistance with sizing actuators, do not hesitate to contact your nearest Emerson's Actuation Technologies representative.