

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS1-200-SR4	Start	6355	4939	6505	11188	15843	18968
	Run	3124	2354	3178	5656	8108	9754
	End	5479	3983	5550	10232	14896	18012
JFS1-200-SR3	Start	11621	0	0	6187	10869	13985
	Run	5709	0	0	2806	5275	6921
	End	10019	0	0	4434	9117	12232
JFS1-250-SR3	Start	11621	6603	9117	16640	24172	29191
	Run	5709	3018	4346	8320	12294	14940
	End	10019	4850	7364	14887	22420	27438
JFS1-300-SR3	Start	11621	14427	18047	28934	0	0
	Run	5709	7152	9063	14808	0	0
	End	10019	12675	16304	27181	0	0
JFS1-350-SR3	Start	11621	19481	23827	0	0	0
	Run	5709	9816	12117	0	0	0
	End	10019	17729	22074	0	0	0
JFS1-200-SR2	Start	13533	0	0	0	9356	12480
	Run	6576	0	0	0	4328	5966
	End	11400	0	0	0	7028	10143
JFS1-250-SR2	Start	13533	5098	7603	15135	22667	27686
	Run	6576	2080	3399	7373	11347	13993
	End	11400	2762	5266	12799	20331	25349
JFS1-300-SR2	Start	13533	12914	16543	27420	0	0
	Run	6576	6205	8116	13861	0	0
	End	11400	10586	14206	25093	0	0
JFS1-350-SR2	Start	13533	17968	22322	0	0	0
	Run	6576	8869	11161	0	0	0
	End	11400	15631	19986	0	0	0
JFS1-200-SR1	Start	15427	0	0	0	7647	10763
	Run	7497	0	0	0	3328	4974
	End	12967	0	0	0	4957	8072
JFS1-250-SR1	Start	15427	0	5886	13418	20950	25969
	Run	7497	0	2399	6373	10347	12993
	End	12967	0	3195	10727	18260	23278
JFS1-300-SR1	Start	15427	11197	14825	25712	0	0
	Run	7497	5204	7116	12861	0	0
	End	12967	8506	12135	23021	0	0
JFS1-350-SR1	Start	15427	16250	20605	0	0	0
	Run	7497	7869	10161	0	0	0
	End	12967	13560	17914	0	0	0

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS2-250-SR3	Start	22455	0	0	15224	24508	30704
	Run	10462	0	0	6523	11418	14684
	End	17206	0	0	9479	18764	24960
JFS2-300-SR3	Start	22455	12489	16959	30377	43804	52752
	Run	10462	5080	7435	14516	21605	26323
	End	17206	6744	11223	24641	38059	47008
JFS2-350-SR3	Start	22455	18720	24084	40175	56266	0
	Run	10462	8364	11197	19685	28182	0
	End	17206	12976	18339	34430	50522	0
JFS2-400-SR3	Start	22455	30722	37803	0	0	0
	Run	10462	14702	18437	0	0	0
	End	17206	24978	32058	0	0	0
JFS2-250-SR2	Start	25234	0	0	12329	21614	27801
	Run	11896	0	0	4948	9851	13117
	End	19853	0	0	6444	15728	21915
JFS2-300-SR2	Start	25234	0	14064	27482	40900	49849
	Run	11896	0	5868	12949	20039	24756
	End	19853	0	8178	21596	35015	43963
JFS2-350-SR2	Start	25234	15817	21189	37280	53372	0
	Run	11896	6798	9630	18118	26615	0
	End	19853	9940	15303	31394	47486	0
JFS2-400-SR2	Start	25234	27828	34908	56142	0	0
	Run	11896	13055	16870	28075	0	0
	End	19853	21942	29022	50256	0	0
JFS2-250-SR1	Start	31988	0	0	0	16427	22623
	Run	14932	0	0	0	6532	9807
	End	24588	0	0	0	8338	14524
JFS2-300-SR1	Start	31988	0	0	26739	35723	44671
	Run	14932	0	0	10913	16720	21437
	End	24588	0	0	14604	27624	36572
JFS2-350-SR1	Start	31988	0	16003	32094	48185	0
	Run	14932	0	6311	14808	23296	0
	End	24588	0	7913	24004	40095	0
JFS2-400-SR1	Start	31988	22650	29722	50964	0	0
	Run	14932	9816	13551	24756	0	0
	End	24588	14551	21632	42865	0	0
JFS2-450-SR1	Start	31988	36156	45167	0	0	0
	Run	14932	16950	21703	0	0	0
	End	24588	28067	37068	0	0	0
JFS3-300-SR3	Start	37121	0	0	28049	44184	54947
	Run	17304	0	0	12303	20818	26500
	End	28456	0	0	18561	34705	45468

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS3-350-SR3	Start	37121	0	20472	39830	59178	72083
	Run	17304	0	8302	18516	28730	35537
	End	28456	0	10993	30341	49698	62594
JFS3-400-SR3	Start	37121	28465	36971	62515	88050	105079
	Run	17304	12515	17012	30492	43972	52956
	End	28456	18977	27491	53026	78570	95600
JFS3-450-SR3	Start	37121	44706	55540	88050	0	0
	Run	17304	21092	26810	43972	0	0
	End	28456	35227	46061	78570	0	0
JFS3-500-SR3	Start	37121	63125	76588	0	0	0
	Run	17304	30810	37918	0	0	0
	End	28456	53646	67108	0	0	0
JFS3-300-SR2	Start	42441	0	0	23588	39723	50486
	Run	19782	0	0	9586	18109	23783
	End	32527	0	0	12745	28881	39644
JFS3-350-SR2	Start	42441	0	0	43370	54717	67622
	Run	19782	0	0	18596	26022	32828
	End	32527	0	0	27102	43874	56779
JFS3-400-SR2	Start	42441	24004	32510	58054	83598	100618
	Run	19782	9807	14294	27774	41255	50247
	End	32527	13153	21667	47211	72746	89776
JFS3-450-SR2	Start	42441	40254	51088	94431	0	0
	Run	19782	18384	24101	46972	0	0
	End	32527	29403	40245	83580	0	0
JFS3-500-SR2	Start	42441	58664	72127	0	0	0
	Run	19782	28102	35209	0	0	0
	End	32527	47822	61284	0	0	0
JFS3-300-SR2A	Start	47964	0	0	0	35094	45946
	Run	22358	0	0	0	15286	20968
	End	36767	0	0	0	22836	33598
JFS3-350-SR2A	Start	47964	0	0	24278	50088	62993
	Run	22358	0	0	9577	23198	30005
	End	36767	0	0	12020	37829	50725
JFS3-400-SR2A	Start	47964	0	0	44910	78960	95989
	Run	22358	0	0	20464	38440	47424
	End	36767	0	0	32651	66701	83730
JFS3-450-SR2A	Start	47964	0	35616	68126	111469	0
	Run	22358	0	15560	32722	55593	0
	End	36767	0	23358	55868	99202	0
JFS3-500-SR2A	Start	47964	54035	67498	0	0	0
	Run	22358	25278	32386	0	0	0
	End	36767	41768	55239	0	0	0

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS3-300-SR1	Start	55044	0	0	0	29155	39918
	Run	25659	0	0	0	11674	17357
	End	42193	0	0	0	15082	25845
JFS3-350-SR1	Start	55044	0	0	24792	44149	57045
	Run	25659	0	0	9373	19587	26394
	End	42193	0	0	10727	30076	42980
JFS3-400-SR1	Start	55044	0	21942	47477	73021	90050
	Run	25659	0	7869	21349	34829	43812
	End	42193	0	7869	33413	58957	75977
JFS3-450-SR1	Start	55044	29677	40511	73021	105522	0
	Run	25659	11949	17667	34829	51982	0
	End	42193	15613	26447	58948	91457	0
JFS3-500-SR1	Start	55044	48087	61559	101955	0	0
	Run	25659	21667	28775	50097	0	0
	End	42193	34023	47486	87890	0	0
JFS4-350-SR4	Start	69410	0	0	0	54894	70551
	Run	31510	0	0	0	23367	31625
	End	49990	0	0	0	33643	49300
JFS4-400-SR4	Start	69410	0	0	72915	89935	110593
	Run	31510	0	0	30067	41856	52761
	End	49990	0	0	41033	68684	89342
JFS4-450-SR4	Start	69410	0	50486	89935	129375	155671
	Run	31510	0	21039	35661	62674	76552
	End	49990	0	29235	68675	108124	134420
JFS4-500-SR4	Start	69410	59673	76021	125047	174064	0
	Run	31510	25889	34510	60390	86262	0
	End	49990	38422	54770	103787	152813	0
JFS4-600-SR4	Start	69410	110841	134491	205432	0	0
	Run	31510	52894	65373	102813	0	0
	End	49990	89590	113231	184180	0	0
JFS4-350-SR3	Start	82633	0	0	0	45636	61293
	Run	37227	0	0	0	17100	25367
	End	58443	0	0	0	19180	34829
JFS4-400-SR3	Start	82633	0	0	59027	80677	101344
	Run	37227	0	0	20676	35599	46503
	End	58443	0	0	19339	54212	74879
JFS4-450-SR3	Start	82633	0	0	80677	120126	146422
	Run	37227	0	0	35599	56416	70295
	End	58443	0	0	54212	93661	119958
JFS4-500-SR3	Start	82633	50433	66763	115789	164806	197492
	Run	37227	19632	28252	54124	79995	97246
	End	58443	23969	40307	89324	138350	171028

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS4-600-SR3	Start	82633	101583	125233	196182	0	0
	Run	37227	46627	59116	96556	0	0
	End	58443	75118	98768	169718	0	0
JFS4-400-SR2	Start	98901	0	0	0	68277	88935
	Run	44512	0	0	0	27624	38528
	End	69781	0	0	0	36413	57071
JFS4-450-SR2	Start	98901	0	0	68277	107717	134013
	Run	44512	0	0	27624	48442	62320
	End	69781	0	0	36413	75853	102149
JFS4-500-SR2	Start	98901	0	54363	103389	152405	185083
	Run	44512	0	20286	46158	72029	89280
	End	69781	0	22499	71525	120542	153229
JFS4-600-SR2	Start	98901	89183	112833	183773	0	0
	Run	44512	38661	51141	88581	0	0
	End	69781	57319	80969	151910	0	0
JFS4-400-SR1	Start	111399	0	0	0	55637	76296
	Run	50858	0	0	0	20685	31589
	End	81332	0	0	0	22729	43396
JFS4-450-SR1	Start	111399	0	0	55637	95077	121374
	Run	50858	0	0	20676	41502	55381
	End	81332	0	0	22729	62178	88475
JFS4-500-SR1	Start	111399	0	0	90749	139766	172453
	Run	50858	0	0	39210	65081	82332
	End	81332	0	0	57841	106867	139545
JFS4-600-SR1	Start	111399	76543	100193	171134	0	0
	Run	50858	31713	44193	81642	0	0
	End	81332	43635	67285	138235	0	0
JFS5-500-SR4	Start	155229	0	0	125498	189049	231409
	Run	66887	0	0	49778	83314	105681
	End	98246	0	0	63143	126684	169054
JFS5-600-SR4	Start	155229	107088	137739	229710	321681	382992
	Run	66887	40060	56239	104778	153317	185676
	End	98246	44724	75384	167355	259317	320627
JFS5-700-SR4	Start	155229	201121	245217	377495	0	0
	Run	66887	89696	112965	182773	0	0
	End	98246	139571	182862	315131	0	0
JFS5-800-SR4	Start	155229	292632	349792	0	0	0
	Run	66887	137987	168160	0	0	0
	End	98246	230276	287436	0	0	0
JFS5-500-SR3	Start	186296	0	0	0	169444	211804
	Run	79809	0	0	0	69171	91537
	End	116161	0	0	0	92697	135057

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS5-600-SR3	Start	186296	0	118134	210105	302076	363387
	Run	79809	0	42095	90634	139173	171532
	End	116161	0	41387	133358	225329	286640
JFS5-700-SR3	Start	186296	181525	225621	357890	0	0
	Run	79809	75552	98821	168629	0	0
	End	116161	104778	148865	281143	0	0
JFS5-800-SR3	Start	186296	273027	330187	0	0	0
	Run	79809	123843	154016	0	0	0
	End	116161	196280	253440	0	0	0
JFS5-500-SR2	Start	229170	0	0	0	147289	189650
	Run	96467	0	0	0	50946	73304
	End	136403	0	0	0	45777	88147
JFS5-600-SR2	Start	229170	0	0	187951	279922	341233
	Run	96467	0	0	72410	120949	153308
	End	136403	0	0	86439	178410	239720
JFS5-700-SR2	Start	229170	159371	203467	335736	0	0
	Run	96467	57328	80597	150405	0	0
	End	136403	57868	101955	234224	0	0
JFS5-800-SR2	Start	229170	250873	308041	0	0	0
	Run	96467	105619	135792	0	0	0
	End	136403	149369	206529	0	0	0
JFS5-500-SR1	Start	255112	0	0	0	0	162947
	Run	109752	0	0	0	0	58771
	End	160805	0	0	0	0	59753
JFS5-600-SR1	Start	255112	0	0	161248	253218	314529
	Run	109752	0	0	57868	106407	138766
	End	160805	0	0	58054	150016	211335
JFS5-700-SR1	Start	255112	0	176754	309033	0	0
	Run	109752	0	66055	135863	0	0
	End	160805	0	73561	205839	0	0
JFS5-800-SR1	Start	255112	224169	281329	0	0	0
	Run	109752	91077	121250	0	0	0
	End	160805	120975	178135	0	0	0
JFS6-600-SR4	Start	306245	0	0	0	317521	392409
	Run	130658	0	0	0	133694	173214
	End	188889	0	0	0	189102	263990
JFS6-700-SR4	Start	306245	0	224134	385700	547257	654965
	Run	130658	0	84403	169674	254944	311785
	End	188889	0	95715	257272	418838	526537
JFS6-800-SR4	Start	306245	282046	351863	561322	0	0
	Run	130658	114966	151821	262361	0	0
	End	188889	153618	223443	432902	0	0

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS6-900-SR4	Start	306245	421060	510738	0	0	0
	Run	130658	188332	235667	0	0	0
	End	188889	292641	382310	0	0	0
JFS6-600-SR3	Start	363484	0	0	0	281480	356368
	Run	154459	0	0	0	107655	147174
	End	221824	0	0	0	126463	201351
JFS6-700-SR3	Start	363484	0	0	349650	511216	618924
	Run	154459	0	0	143634	228896	285746
	End	221824	0	0	194633	356200	463907
JFS6-800-SR3	Start	363484	245996	315821	525280	0	0
	Run	154459	88926	125773	236322	0	0
	End	221824	90979	160805	370264	0	0
JFS6-900-SR3	Start	363484	385019	474697	0	0	0
	Run	154459	162292	209627	0	0	0
	End	221824	230002	319680	0	0	0
JFS6-700-SR2	Start	441134	0	0	0	462323	570031
	Run	186738	0	0	0	193580	250421
	End	266504	0	0	0	271230	378938
JFS6-800-SR2	Start	441134	0	0	476387	685846	0
	Run	186738	0	0	200997	311546	0
	End	266504	0	0	285303	494762	0
JFS6-900-SR2	Start	441134	336126	425804	694839	0	0
	Run	186738	126968	174303	316290	0	0
	End	266504	145032	234711	503746	0	0
JFS6-700D-SR2	Start	441134	462323	570031	0	0	0
	Run	186738	193580	250421	0	0	0
	End	266504	271230	378938	0	0	0
JFS6-700-SR1	Start	498373	0	0	0	426282	533981
	Run	210539	0	0	0	167532	224382
	End	299447	0	0	0	208592	316299
JFS6-800-SR1	Start	498373	0	0	555790	649805	0
	Run	210539	0	0	207167	285507	0
	End	299447	0	0	229259	432124	0
JFS6-900-SR1	Start	498373	0	389763	658798	0	0
	Run	210539	0	148263	290251	0	0
	End	299447	0	172072	441107	0	0
JFS6-700D-SR1	Start	498373	426282	533981	0	0	0
	Run	210539	167532	224382	0	0	0
	End	299447	208592	316299	0	0	0
JFS7-700-SR3	Start	504649	0	0	308847	500639	628501
	Run	228285	0	0	121356	222576	290065
	End	360422	0	0	151025	342817	470678

Model	Spring Torque (In-Lbs)		Output Torque (In-Lbs)				
			50 PSI	60 PSI	80 PSI	100 PSI	120 PSI
JFS7-800-SR3	Start	504649	0	268681	517341	765992	931762
	Run	228285	0	100158	231392	362625	450118
	End	360422	0	110859	359519	608179	773949
JFS7-900-SR3	Start	504649	350827	457287	776666	1096055	0
	Run	228285	143519	199696	368264	536822	0
	End	360422	193005	299465	618844	938233	0
JFS7-1000-SR3	Start	504649	509986	639175	1026769	0	559365
	Run	228285	227506	295694	500259	0	246022
	End	360422	352155	481353	868947	0	372928
JFS7-700-SR2	Start	593982	0	0	0	431504	862636
	Run	268530	0	0	0	178542	406075
	End	423600	0	0	0	245066	676190
JFS7-800-SR2	Start	593982	0	0	547974	696857	0
	Run	268530	0	0	215416	318592	0
	End	423600	0	0	268318	510419	0
JFS7-900-SR2	Start	593982	281692	388152	707531	1026920	0
	Run	268530	99468	155663	324221	492788	0
	End	423600	95246	201714	521094	840482	0
JFS7-1000-SR2	Start	593982	440842	570040	957634	0	0
	Run	268530	183464	251660	456216	0	0
	End	423600	254404	383602	771196	0	0
JFS7-800D-SR2	Start	593982	696857	862636	0	0	0
	Run	268530	318592	406075	0	0	0
	End	423600	510419	676190	0	0	0
JFS7-800-SR1	Start	737456	0	0	0	614127	0
	Run	326345	0	0	0	255325	0
	End	499205	0	0	0	353412	0
JFS7-900-SR1	Start	737456	0	0	777516	944189	0
	Run	326345	0	0	307156	429521	0
	End	499205	0	0	386444	683474	0
JFS7-1000-SR1	Start	737456	0	487310	874904	0	0
	Run	326345	0	188394	392958	0	0
	End	499205	0	226594	614189	0	0
JFS7-800D-SR1	Start	737456	614127	779897	0	0	0
	Run	326345	255325	342817	0	0	0
	End	499205	353412	519182	0	0	0