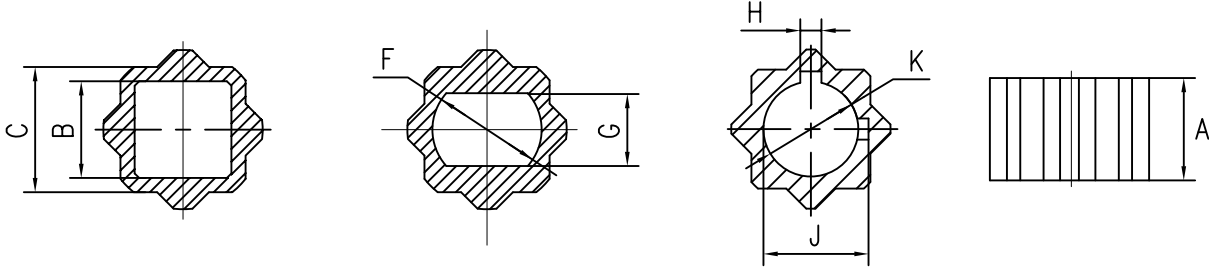


SPN II Pneumatic Actuator



- Rack & pinion design
- The standard actuator configuration has an epoxy coated, hard anodized aluminum body and epoxy coated end caps
- Inside surface finish (Ra 0.4-0.6 μ m) to minimize friction and to maximize the life of the actuator.
- Standard applications for temperature ranges from -4°F to 180°F.
- Special options for extreme temperatures (upon request).
- Piston bearing made of material with a low friction coefficient to avoid metal-on-metal contact, easily replaceable for maintenance.
- Base drilling, for valve mounting and centering, according to ISO 5211/DIN 3337 standards.
- The indicator is designed to remain on the actuator for continuous indication when limit switch is not being used. (Not available on SPN II 032)
- Independent bidirectional travel stop adjustment $\pm 5^\circ$ ensuring precise positioning in all flow control services. (Not available on SPN II 032)
- Direct mounted solenoid connections according to NAMUR standards.
- Same body and end caps for double acting and spring return.
- Air supply can be dry or lubricated filter compressed air. Pressure: 40 PSI to 120 PSI
- The lubrication carried out by the manufacturer qualifies for a minimum 1,000,000 operations.
- Epoxy coating is a deposit of powder on clean sandblasted pieces. The chemical process is easily kept under control and after coating, the pieces must be subjected to heat treatment. Epoxy painting of actuators is advised where environment is strongly aggressive. With the exception of certain solvents, epoxy coatings resist acids and alkali, and also has a good resistance to UV rays. In order to retain its properties, the coating must not be scratched.
- Multi-function position indicator with NAMUR slot to allow confirmation of position.
- The SPN II features inserts to allow easy conversion to many square and diamond valve stems. There are also double D along with round bores with keyway inserts for the same actuators for butterfly applications. The pinion is drilled deeper than standard actuators. The SPN II series has mounting plates for the transition of the bolt circles of the actuator to be used with other industry standards for butterfly valves.
- For conditions or applications that demand the most from equipment, Sharpe offers our SPNII with chemical nickel plating. These actuators are designed to be a cost effective option in comparison to stainless steel actuators. The Nickel plating is done through chemical impregnation to provide uniform coverage and protection. The bath is a mixture of nickel and phosphorous to provide excellent qualities in: hardness, wear resistance, appearance and its inherent ability to withstand many wash-down applications that actuators with standard finishes cannot.

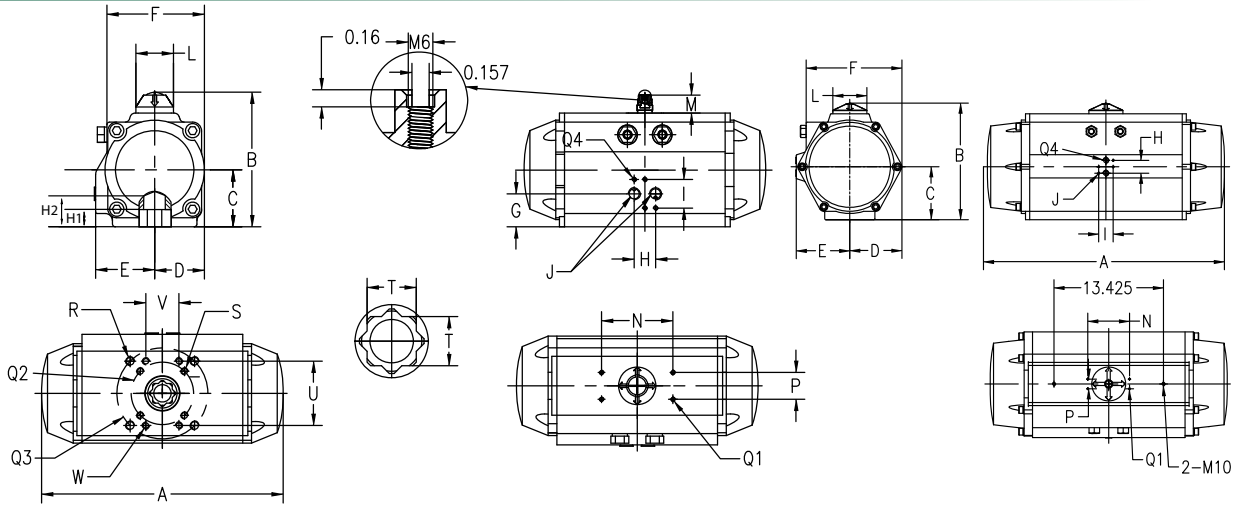
SPN II Inserts Dimensions



Model	Insert Code	Insert Shape	Unit	Insert Size	A	B	C	F	G	H	J	K
050	A	Square	in mm	0.354 9	0.472 12	0.354 9	0.669 17					
	B*	Square	in mm	0.433 11	0.472 12	0.433 11	0.669 17					
	C	Square	in mm	0.551 14	0.472 12	0.551 14	0.669 17					
	G	Flat	in mm	0.378 10	0.472 12	-	0.669 17	0.567 14	0.378 10			
063	A	Square	in mm	0.354 9	0.630 16	0.354 9	0.669 17					
	B*	Square	in mm	0.433 11	0.630 16	0.433 11	0.669 17					
	C	Square	in mm	0.551 14	0.630 16	0.551 14	0.669 17					
	G	Flat	in mm	0.378 10	0.630 16	-	0.669 17	0.567 14	0.378 10			
075 & 085	A	Square	in mm	0.354 9	0.709 18	0.354 9	0.866 22					
	B	Square	in mm	0.433 11	0.709 18	0.433 11	0.866 22					
	C*	Square	in mm	0.551 14	0.709 18	0.551 14	0.866 22					
	D	Square	in mm	0.669 17	0.709 18	0.669 17	0.866 22					
	G	Flat	in mm	0.378 10	0.709 18	-	0.866 22	0.567 14	0.378 10			
	H	Flat	in mm	0.441 11	0.709 18	-	0.866 22	0.63 16	0.441 11			
	I	Flat	in mm	0.503 13	0.709 18	-	0.866 22	0.756 19	0.503 13			
100 & 115	B	Square	in mm	0.433 11	0.906 23	0.433 11	0.866 22					
	C	Square	in mm	0.551 14	0.906 23	0.551 14	0.866 22					
	D*	Square	in mm	0.669 17	0.906 23	0.669 17	0.866 22					
	G	Flat	in mm	0.378 10	0.906 23	-	0.866 22	0.567 14	0.378 10			
	H	Flat	in mm	0.441 11	0.906 23	-	0.866 22	0.63 16	0.441 11			
	I	Flat	in mm	0.503 13	0.906 23	-	0.866 22	0.756 19	0.503 13			
125, 145 & 160	C	Square	in mm	0.551 14	1.142 29	0.551 14	1.417 36					
	D	Square	in mm	0.669 17	1.142 29	0.669 17	1.417 36					
	E	Square	in mm	0.866 22	1.142 29	0.866 22	1.417 36					
	F	Square	in mm	1.063 27	1.142 29	1.063 27	1.417 36					
	G	Flat	in mm	0.378 10	1.142 29	-	1.417 36	0.563 14	0.378 10			
	H	Flat	in mm	0.441 11	1.142 29	-	1.417 36	0.63 16	0.441 11			
	I	Flat	in mm	0.503 13	1.142 29	-	1.417 36	0.756 19	0.503 13			
	J	Flat	in mm	0.628 16	1.142 29	-	1.417 36	0.882 22	0.628 16			
	K	Round	in mm	1.130 29	1.142 29	-	1.417 36				0.252 6	1.252 32
180 & 200	E	Square	in mm	0.866 22	1.654 42	0.866 22	1.417 36					
	F*	Square	in mm	1.063 27	1.654 42	1.063 27	1.417 36					
	J	Flat	in mm	0.628 16	1.654 42	-	1.417 36	0.882 22	0.628 16			
	K	Round	in mm	1.130 29	1.654 42	-	1.417 36				0.252 6	1.252 32

* STANDARD INSERT

SPN II Dimensions



Model	Unit	A	B	C	D	E	F	G	H	H1	H2	I	J	L
032	in	4.61	2.83	1.22	.81	1.18	1.99	102	0.94	.43	-	1.26	1/8"	-
	mm	117	72	31	21	30	51	26	24	11	-	32		-
040	in	4.29	2.95	1.10	1.06	1.30	2.36	1.14	0.94	0.43	-	1.26	1/8"	-
	mm	109	75	28	27	33	60	29	24	11	-	32		-
050	in	5.8	3.62	1.35	1.12	1.61	2.28	1.02	0.94	0.47	1.26	1.26	1/4"	1.65
	mm	147	92	34	28	41	58	26	24	12	32	32		42
063	in	6.26	4.25	1.67	1.42	1.93	2.83	1.18	0.94	0.63	1.34	1.26	1/4"	1.65
	mm	159	108	42	36	49	72	30	24	16	34	32		42
075	in	8.39	4.92	2.01	1.71	2.07	3.39	1.03	0.94	0.75	1.34	1.26	1/4"	1.65
	mm	213	125	51	43	53	86	26	24	19	34	32		42
085	in	9.8	5.43	2.27	1.91	2.22	3.8	1.26	0.94	0.75	1.34	1.26	1/4"	1.65
	mm	249	138	58	49	56	97	32	24	19	34	32		42
100	in	10.67	5.94	2.5	2.2	2.6	4.17	1.46	0.94	0.91	1.89	1.26	1/4"	1.65
	mm	271	151	64	56	66	106	37	24	23	48	32		42
115	in	12.40	7.28	2.85	2.52	3.03	5.00	1.67	0.94	0.91	1.89	1.26	1/4"	2.6
	mm	315	185	72	64	77	127	42	24	23	48	32		66
125	in	13.62	7.48	3.09	2.72	3.23	5.12	1.8	0.94	1.14	2.56	1.26	1/4"	2.6
	mm	346	190	78	69	82	130	46	24	29	65	32		66
145	in	16.22	8.25	3.46	3.15	3.54	5.85	2.17	0.94	1.14	2.56	1.26	1/4"	2.6
	mm	412	210	88	80	90	149	55	24	29	65	32		66
160	in	17.44	9.06	3.87	3.46	3.87	6.28	2.04	0.94	1.14	2.56	1.26	1/4"	2.6
	mm	443	230	98	88	98	160	52	24	29	65	32		66
180	in	19.37	9.96	4.33	3.88	4.15	7.07	2.37	0.94	1.65	3.62	1.26	1/4"	3.15
	mm	492	253	110	99	105	180	60	24	42	92	32		80
200	in	21.54	10.91	4.8	4.29	4.41	7.64	2.6	0.94	1.65	3.62	1.26	1/4"	3.15
	mm	547	277	122	109	112	194	66	24	42	92	32		80
240	in	24.17	13.7	5.75	5.14	5.16	9.09	2.76	1.57	1.97	3.62	1.77	3/8"	3.15
	mm	614	348	146	131	131	231	70	40	50	92	45		80
265	in	28.7	15.31	6.57	5.79	5.78	9.99	3.54	1.57	1.97	3.62	1.77	1/2"	3.15
	mm	729	389	167	147	146	254	90	40	50	92	45		80
300	in	33.03	16.14	6.99	6.38	6.81	11.42	3.35	1.57	1.97	3.62	1.77	1/2"	3.15
	mm	839	410	178	162	173	290	85	40	50	92	45		80

Model	Unit	M	N	P	Q1	Q2	Q3	Q4	R	S	T	U	V	W
032	in	0.79	1.00	1.00	M5	F03	-	M5	-	M5	0.35	-	-	-
	mm	20	25	25							9			
040	in	0.79	1.61	1.18	M5	F05	F04	M5	M6	M5	0.67	-	-	-
	mm	20	41	30							17			
050	in	0.79	3.15	1.18	M5	F04	-	M5	-	M5	0.67	-	-	-
	mm	20	80	30							17			
063	in	0.79	3.15	1.18	M5	F05	-	M5	-	M6	0.67	-	-	-
	mm	20	80	30							17			
075	in	0.79	3.15	1.18	M5	F05	F07	M5	M8	M6	0.87	-	-	-
	mm	20	80	30							22			
085	in	0.79	3.15	1.18	M5	F05	F07	M5	M8	M6	0.87	-	-	-
	mm	20	80	30							22			
100	in	0.79	3.15	1.18	M5	F07	F10	M5	M10	M8	0.87	2.83	1.46	M8
	mm	20	80	30							22	72	37	
115	in	1.18	3.15	1.18	M5	F07	F10	M5	M10	M8	0.87	2.83	1.46	M8
	mm	30	80	30							22	72	37	
125	in	1.18	3.15	1.18	M5	F10	-	M5	-	M10	1.42	2.83	1.46	M8
	mm	30	80	30							36	72	37	
145	in	1.18	3.15	1.18	M5	F10	F12	M5	M12	M10	1.42	2.83	1.46	M8
	mm	30	80	30							36	72	37	
160	in	1.18	3.15	1.18	M5	F10	F12	M5	M12	M10	1.42	2.83	1.46	M8
	mm	30	80	30							36	72	37	
180	in	1.18	5.12	1.18	M5	F10	F14	M5	M16	M10	1.42	3.9	2.09	M10
	mm	30	130	30							36	99	53	
200	in	1.18	5.12	1.18	M5	F10	F14	M5	M16	M10	1.42	3.9	2.09	M10
	mm	30	130	30							36	99	53	
240	in	1.97	5.12	1.18	M5	F12	F16	M6	M20	M12	1.81	-	-	-
	mm	50	130	30							46			
265	in	1.97	5.12	1.18	M5	-	F16	M6	M20	-	1.81	-	-	-
	mm	50	130	30							46			
300	in	1.97	5.12	1.18	M5	-	F16	M6	M20	-	1.81	-	-	-
	mm	50	130	30							46			

SPN II Spring Return Torques

Model	Spring Quantity	Air Supply														Spring Return	
		40 PSI		60 PSI		70 PSI		80 PSI		90 PSI		100 PSI		120 PSI		Start	End
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End		
40	2	0	0	0	0	51	33	62	45	73	56	87	69	110	93	27	44
	4	0	0	0	0	0	0	0	0	55	21	70	34	92	58	44	80
50	5	53	39	82	67	109	95	129	114	146	131	174	160	215	200	27	42
	6	46	31	75	58	103	86	122	105	139	122	167	151	208	190	34	50
	7	41	23	69	49	97	78	115	96	133	113	161	142	201	181	40	59
	8	0	0	61	38	90	68	108	86	125	103	154	133	194	171	47	69
	9	0	0	55	30	84	61	102	78	119	94	148	125	188	163	53	77
	10	0	0	0	0	78	53	96	70	113	86	142	117	181	155	59	85
	11	0	0	0	0	71	44	89	60	105	76	135	107	174	145	66	95
	12	0	0	0	0	64	34	82	51	98	66	128	98	167	135	73	104
63	5	84	60	145	118	197	172	225	199	259	233	290	265	369	342	50	76
	6	75	46	135	102	187	156	215	183	249	216	281	249	359	326	60	92
	7	66	31	125	85	178	141	205	167	239	200	271	234	349	309	70	108
	8	0	0	114	70	167	127	194	153	228	185	261	220	338	295	81	122
	9	0	0	103	54	157	112	184	137	217	168	250	204	327	278	91	138
	10	0	0	92	38	147	97	173	121	206	152	240	188	316	262	102	154
	11	0	0	0	0	138	81	163	105	196	135	230	173	306	245	112	170
	12	0	0	0	0	128	67	154	90	186	120	221	158	296	230	121	185
75	5	183	130	325	266	402	346	457	399	526	467	602	545	728	668	102	159
	6	167	102	307	233	385	316	439	368	508	435	584	514	710	636	119	190
	7	149	73	287	201	366	286	420	337	488	403	565	484	689	604	139	221
	8	0	0	266	169	346	256	399	306	467	371	545	453	668	572	159	252
	9	0	0	246	137	328	226	381	275	448	339	527	423	649	540	178	283
	10	0	0	226	105	309	197	361	244	428	307	507	392	629	508	197	314
	11	0	0	0	0	291	167	342	213	407	275	488	362	609	476	217	345
	12	0	0	0	0	272	137	322	182	387	243	469	331	589	444	236	376
85	5	278	187	469	366	591	496	703	604	798	696	917	820	1155	1053	166	266
	6	248	140	435	313	560	446	670	552	764	643	885	769	1122	1000	199	317
	7	218	93	401	260	528	396	637	501	731	590	853	718	1088	947	232	368
	8	0	0	368	207	497	347	605	449	698	536	821	668	1055	894	264	419
	9	0	0	335	154	467	297	574	398	665	483	790	617	1022	840	296	471
	10	0	0	301	101	435	248	541	346	631	430	758	567	988	787	328	522
	11	0	0	0	0	403	198	508	295	597	377	725	516	954	734	361	573
	12	0	0	0	0	372	149	475	243	563	324	693	466	920	681	394	625
100	5	418	305	722	595	871	752	1038	914	1189	1062	1385	1264	1729	1602	222	345
	6	377	241	676	523	827	684	993	844	1143	990	1341	1195	1683	1530	267	415
	7	335	177	629	450	784	617	947	774	1096	917	1297	1127	1636	1458	312	485
	8	0	0	582	378	740	549	902	704	1049	845	1252	1058	1589	1385	358	555
	9	0	0	536	306	696	482	857	634	1002	773	1208	989	1543	1313	403	625
	10	0	0	490	234	654	415	812	565	957	701	1164	921	1497	1241	447	694
	11	0	0	0	0	610	348	767	494	910	629	1120	852	1450	1169	492	764
	12	0	0	0	0	566	280	721	424	862	557	1074	783	1403	1097	538	834
115	5	716	513	1199	970	1487	1273	1731	1509	1987	1758	2267	2049	2774	2554	363	584
	6	651	407	1126	851	1418	1162	1660	1403	1913	1648	2197	1936	2701	2435	434	699
	7	586	301	1053	732	1350	1051	1589	1287	1831	1520	2127	1822	2628	2307	504	814
	8	0	0	970	613	1273	940	1518	1172	1758	1401	2049	1709	2554	2188	584	929
	9	0	0	897	494	1205	829	1447	1048	1685	1282	1979	1596	2472	2069	655	1044
	10	0	0	824	375	1136	718	1367	932	1611	1163	1910	1482	2399	1950	726	1159
	11	0	0	0	0	1068	607	1296	817	1538	1044	1840	1369	2325	1831	797	1274
	12	0	0	0	0	1000	496	1225	701	1456	925	1761	1256	2243	1712	867	1389
125	5	911	667	1456	1181	1854	1598	2211	1944	2536	2261	2912	2651	3580	3305	451	717
	6	826	529	1360	1025	1765	1453	2117	1793	2440	2106	2821	2502	3484	3149	544	867
	7	741	399	1263	879	1675	1316	2024	1651	2344	1959	2729	2363	3387	3003	637	1009
	8	0	0	1163	723	1581	1171	1926	1500	2243	1804	2633	2215	3287	2847	735	1159
	9	0	0	1067	568	1491	1025	1833	1349	2147	1648	2542	2066	3191	2692	827	1310
	10	0	0	965	411	1401	880	1740	1198	2051	1492	2450	1918	3094	2536	920	1460
	11	0	0	0	0	1312	743	1647	1056	1955	1346	2359	1779	2998	2390	1013	1602
	12	0	0	0	0	1218	598	1549	906	1854	1190	2263	1630	2898	2234	1111	1752

SPN II Spring Return Torques Cont.

Model	Spring Quantity	Air Supply														Spring Return	
		40 PSI		60 PSI		70 PSI		80 PSI		90 PSI		100 PSI		120 PSI		Start	End
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End		
145	5	1213	838	2142	1721	2897	2504	3382	2974	4120	3699	4438	4037	5576	5154	717	1124
	6	1074	627	1987	1483	2751	2281	3231	2743	3964	3461	4290	3810	5420	4916	867	1354
	7	936	415	1831	1245	2606	2059	3081	2512	3809	3233	4142	3584	5264	4678	1018	1584
	8	0	0	1685	1007	2469	1837	2939	2282	3662	2985	4002	3357	5118	4440	1159	1814
	9	0	0	1529	778	2324	1624	2788	2060	3506	2756	3854	3139	4962	4211	1310	2036
	10	0	0	1373	540	2179	1401	2637	1829	3351	2518	3706	2912	4806	3973	1460	2266
	11	0	0	0	0	2042	1179	2495	1598	3204	2280	3566	2686	4660	3735	1602	2496
	12	0	0	0	0	1905	957	2353	1367	3058	2042	3427	2459	4514	3497	1743	2726
160	5	1953	1506	3113	2609	3845	3375	4572	4084	5173	4669	5912	5432	7324	6821	974	1460
	6	1766	1237	2902	2307	3649	3093	4368	3791	4962	4367	5711	5144	7114	6518	1177	1752
	7	1579	960	2692	1996	3452	2803	4164	3489	4752	4056	5511	4848	6903	6207	1381	2053
	8	0	0	2481	1694	3256	2521	3959	3196	4541	3754	5310	4560	6692	5905	1584	2345
	9	0	0	2280	1382	3068	2230	3764	2894	4340	3442	5118	4264	6491	5594	1779	2646
	10	0	0	2069	1080	2871	1948	3560	2601	4129	3140	4918	3976	6280	5292	1982	2938
	11	0	0	0	0	2675	1658	3356	2299	3918	2829	4717	3680	6070	4980	2186	3239
	12	0	0	0	0	2487	1376	3160	2006	3717	2527	4525	3392	5868	4678	2381	3531
180	5	2352	1676	4129	3369	5161	4452	6143	5407	6903	6143	7917	7193	9897	9137	1381	2115
	6	2091	1294	3836	2939	4888	4050	5859	4989	6610	5713	7638	6784	9604	8707	1664	2531
	7	1831	911	3543	2509	4614	3649	5575	4572	6317	5283	7359	6374	9311	8276	1947	2947
	8	0	0	3250	2069	4341	3238	5291	4146	6024	4843	7080	5955	9018	7837	2230	3372
	9	0	0	2966	1639	4076	2837	5016	3729	5740	4413	6810	5545	8734	7407	2505	3788
	10	0	0	2673	1208	3802	2435	4732	3311	5447	3983	6531	5136	8441	6976	2788	4204
	11	0	0	0	0	3538	2034	4457	2894	5164	3552	6260	4726	8157	6546	3062	4620
	12	0	0	0	0	3264	1632	4173	2477	4871	3122	5981	4316	7864	6116	3345	5036
200	5	3328	2498	5713	4779	7195	6323	8425	7519	9558	8624	10864	9975	13412	12479	1912	2814
	6	2987	1986	5328	4202	6836	5785	8052	6960	9173	8047	10498	9425	13028	11902	2283	3372
	7	2645	1473	4944	3625	6477	5247	7679	6401	8789	7471	10132	8876	12643	11325	2655	3929
	8	0	0	4559	3058	6118	4717	7306	5850	8404	6903	9766	8336	12259	10757	3027	4478
	9	0	0	4166	2490	5751	4187	6925	5300	8011	6335	9391	7795	11865	10190	3407	5027
	10	0	0	3772	1913	5383	3649	6543	4741	7617	5759	9016	7246	11471	9613	3788	5584
	11	0	0	0	0	5024	3119	6170	4190	7233	5191	8649	6705	11087	9045	4160	6133
	12	0	0	0	0	4657	2581	5788	3631	6839	4614	8275	6156	10693	8469	4540	6691
240	5	5737	4419	9796	8313	12134	10749	14249	12811	16342	14859	18685	17273	22888	21405	3230	4664
	6	5135	3564	9119	7352	11501	9852	13592	11878	15665	13898	18040	16357	22210	20444	3885	5593
	7	4541	2694	8450	6372	10878	8938	12944	10929	14996	12936	17395	15450	21524	19482	4531	6540
	8	0	0	7736	5402	10245	8032	12287	9987	14319	11975	16758	14535	20846	18521	5186	7478
	9	0	0	7123	4449	9639	7143	11656	9064	13669	11014	16113	13628	20160	17560	5814	8399
	10	0	0	6445	3506	9006	6263	11000	8150	12991	10052	15459	12713	19491	16589	6469	9310
	11	0	0	0	0	8374	5358	10343	7209	12314	9100	14823	11788	18814	15637	7124	10248
	12	0	0	0	0	7742	4426	9686	6241	11636	8148	14169	10882	18127	14667	7779	11213
265	5	9790	7690	16278	13916	20149	17944	23597	21307	27081	24719	30849	28599	37793	35431	4797	7080
	6	8887	6429	15298	12479	19217	16577	22629	19886	26083	23254	29898	27204	36795	33966	5779	8452
	7	8016	5119	14319	11041	18286	15210	21742	18466	22613	21789	28948	25809	35797	32501	6726	9877
	8	0	0	13339	9567	17355	13843	20685	17045	24087	20324	27997	24414	34799	31036	7655	11284
	9	0	0	12359	8111	16423	12475	19726	15625	23089	18860	27047	23019	33709	29571	8673	12744
	10	0	0	11297	6628	15492	11108	18759	14204	22091	17395	26097	21624	32803	28106	9611	14125
	11	0	0	0	0	14560	9741	17791	12784	21094	15930	25146	20229	31805	26642	10558	15523
	12	0	0	0	0	13672	8459	16823	11364	20096	14465	24196	18833	30807	25177	11505	16904
300	5	11857	8854	20041	16662	25147	21994	29181	25905	33444	30066	38225	35008	46838	43460	6531	9797
	6	10661	7064	18695	14648	23891	20115	27876	23952	32098	28051	36943	33089	45492	41445	7832	11744
	7	9464	5265	17349	12625	22635	18226	26571	21990	30752	26028	35662	31162	44146	39422	9133	13700
	8	0	0	16003	10602	21379	16338	25266	20028	29406	24005	34380	29236	42800	37399	10434	15656
	9	0	0	14648	8578	20115	14449	23952	18066	28051	21982	33089	27309	41445	35376	11744	17612
	10	0	0	13302	6555	18858	12561	22647	16104	26706	19958	31808	25382	40100	33352	13045	19567
	11	0	0	0	0	17602	10672	21342	14145	25359	17935	30526	23455	38754	31329	14346	21523
	12	0	0	0	0	0	0	20035	12184	24011	15914	29242	21530	37399	29306	15656	23479

SPN II Double Acting Torques and Technical Information

SPN II Double Acting Torque Ratings							
Model	40 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI
32	26	41	51	59	67	76	92
40	41	64	77	89	101	113	137
50	77	110	135	155	174	201	243
63	130	197	245	275	311	340	421
75	277	430	500	559	632	702	833
85	431	641	752	870	970	1,081	1,328
100	623	952	1,085	1,261	1,419	1,604	1,959
115	1,050	1,556	1,837	2,095	2,362	2,625	3,149
125	1,327	1,923	2,289	2,664	3,003	3,357	4,047
145	1,872	2,884	3,588	4,102	4,862	5,145	6,317
160	2,849	4,120	4,784	5,549	6,180	6,871	8,331
180	3,622	5,557	6,492	7,529	8,331	9,278	11,325
200	5,087	7,690	9,037	10,344	11,536	12,748	15,390
240	8,709	13,138	15,248	17,492	19,684	21,869	26,230
265	14,203	21,240	24,772	28,413	32,044	35,577	42,755
300	17,865	26,798	31,443	35,738	40,201	44,663	53,595

SPN II Air Consumption and Weights																	
	Unit	032	040	050	063	075	085	100	115	125	145	160	180	200	240	265	300
Body Diameter	in	1.26	1.57	1.97	2.48	2.95	3.46	3.94	4.53	4.92	5.71	6.3	7.09	7.87	9.45	10.43	11.81
	mm	32	40	50	63	75	88	100	115	125	145	160	180	200	240	265	300
Air Consumption Per Stroke Actual in ³	CCW	0.9	1.9	4.9	9.2	18.3	30.5	45.8	72.6	94.6	146.5	195.3	262.4	358.2	610.2	884.8	1287.6
	CW	2.1	4.15	7.9	15.3	29.3	44.6	65.9	109.8	133.0	216.6	288.0	415.0	581.6	927.6	1305.9	1861.2
Opening Time DA	Sec.	0.13	0.14	0.2	0.2	0.2	0.3	0.4	0.7	0.8	1.3	1.6	2.0	2.7	3.5	4.0	8.8
Closing Time DA	Sec.	0.14	0.16	0.2	0.2	0.3	0.4	0.5	0.9	1.1	1.4	2.0	2.4	3.5	4.1	4.5	12.7
Approximate Weight - DA	Lb	0.71	1.53	2.40	3.40	6.10	8.30	11.70	18.50	21.90	31.10	40.50	55.10	77.20	119.05	178.57	299.39
	kg	0.32	0.70	1.09	1.54	2.77	3.76	5.31	8.39	9.93	14.10	18.37	24.99	35.01	53.99	80.98	135.80