

CREDESCENCE B-SERIES SCOTCH YOKE ACTUATOR

PNEUMATIC SPRING RETURN SCOTCH YOKE ACTUATOR TORQUES.

TORQUE DATA IN IMPERIAL (lb-in)



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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B01P15-SR5	START	137				56	83	139				
	MINIMUM	51				51	66	95				
	END	66				127	155	210				
B01P02-SR5	START	137		78	121	165						
	MINIMUM	51		63	86	109						
	END	66		150	193	236						
B01P23-SR5	START	137	111	173								
	MINIMUM	51	80	113								
	END	66	65	98								
B01P03-SR5	START	137	251									
	MINIMUM	51	154									
	END	66	322									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B01P15-SR4	START	174					46	101	157			
	MINIMUM	61					56	85	114			
	END	68					153	208	263			
B01P02-SR4	START	174			84	127	170					
	MINIMUM	61			76	99	121					
	END	68			191	234	277					
B01P23-SR4	START	174	74	136								
	MINIMUM	61	71	103								
	END	68	63	96								
B01P03-SR4	START	174	214	311								
	MINIMUM	61	144	195								
	END	68	320	417								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B01P15-SR3	START	270								143	212	
	MINIMUM	95								124	160	
	END	108								306	375	
B01P02-SR3	START	270				75	161	247				
	MINIMUM	95				87	133	178				
	END	108				237	323	409				
B01P23-SR3	START	270			102	164	226					
	MINIMUM	95			102	135	168					
	END	108			264	326	389					
B01P03-SR3	START	270	118	215	312							
	MINIMUM	95	110	161	213							
	END	108	280	377	474							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B01P15-SR2	START	439									44	113
	MINIMUM	145									110	146
	END	142									340	409
B01P02-SR2	START	439							78	208	316	
	MINIMUM	145							128	196	253	
	END	142							375	504	612	
B01P23-SR2	START	439				58	182	306				
	MINIMUM	145				117	182	248				
	END	142				354	478	603				
B01P03-SR2	START	439			143	240	337					
	MINIMUM	145			162	213	264					
	END	142			440	537	634					

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B01P15-SR1	START	526										
	MINIMUM	175										
	END	176										
B01P02-SR1	START	526								121	229	
	MINIMUM	175								166	223	
	END	176								471	579	
B01P23-SR1	START	526						95	219	405	561	
	MINIMUM	175						152	218	316	398	
	END	176						445	569	756	911	
B01P03-SR1	START	526				153	250	444				
	MINIMUM	175				183	234	337				
	END	176				503	600	794				
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B02P23-SR5	START	297			169	246	324					
	MINIMUM	134			112	153	194					
	END	239			227	304	382					
B02P03-SR5	START	297		309								
	MINIMUM	134		186								
	END	239		367								
B02P35-SR5	START	297	402	576								
	MINIMUM	134	235	327								
	END	239	130	222								
B02P43-SR5	START	297	746									
	MINIMUM	134	417									
	END	239	804									
B02P05-SR5	START	297										
	MINIMUM	134										
	END	239										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B02P23-SR4	START	403				140	218	373				
	MINIMUM	181				106	147	229				
	END	319				224	302	457				
B02P03-SR4	START	403		203	324							
	MINIMUM	181		139	203							
	END	319		287	408							
B02P35-SR4	START	403	295	470								
	MINIMUM	181	188	280								
	END	319	49	142								
B02P43-SR4	START	403	640	901								
	MINIMUM	181	370	508								
	END	319	724	985								
B02P05-SR4	START	403										
	MINIMUM	181										
	END	319										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
B02P23-SR3	START	595								336	569	
	MINIMUM	261								230	353	
	END	450								482	714	
B02P03-SR3	START	595						617	860	1224		
	MINIMUM	261						379	507	699		
	END	450						763	1005	1369		
B02P35-SR3	START	595		278	452	627						
	MINIMUM	261		200	292	384						
	END	450		423	598	773						
B02P43-SR3	START	595	448	709	970	1231						
	MINIMUM	261	289	427	565	702						
	END	450	594	855	1115	1376						
B02P05-SR3	START	595	752	1089	1426	1763						
	MINIMUM	261	450	628	805	983						
	END	450	898	1234	1571	1908						

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			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
B02P23-SR2	START	966										392	586
	MINIMUM	391										325	428
	END	600										758	952
B02P03-SR2	START	966							489	853			
	MINIMUM	391							376	568			
	END	600							855	1218			
B02P35-SR2	START	966					431	781	1130				
	MINIMUM	391					346	530	714				
	END	600					797	1146	1495				
B02P43-SR2	START	966		339	599	860	1121						
	MINIMUM	391		297	434	572	710						
	END	600		704	965	1225	1486						
B02P05-SR2	START	966	382	719	1055								
	MINIMUM	391	320	497	675								
	END	600	747	1084	1421								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
B02P23-SR1	START	1291											
	MINIMUM	504											
	END	726											
B02P03-SR1	START	1291									528	831	1134
	MINIMUM	504									456	616	776
	END	726									1093	1396	1699
B02P35-SR1	START	1291							455	804	1328		
	MINIMUM	504							417	602	878		
	END	726							1020	1369	1893		
B02P43-SR1	START	1291				535	795	1317					
	MINIMUM	504				459	597	872					
	END	726				1100	1361	1882					
B02P05-SR1	START	1291		393	730	1067							
	MINIMUM	504		385	562	740							
	END	726		958	1295	1632							

CREDESCENCE A-SERIES SCOTCH YOKE ACTUATOR

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			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A03P03-SR5	START	636				333	471	748				
	MINIMUM	268				243	316	462				
	END	437				532	670	947				
A03P35-SR5	START	636		353	550	748						
	MINIMUM	268		254	358	462						
	END	437		551	749	947						
A03P04-SR5	START	636	352	598	845							
	MINIMUM	268	253	383	514							
	END	437	550	797	1044							
A03P05-SR5	START	636		934								
	MINIMUM	268		560								
	END	437		1132								
A03P06-SR5	START	636										
	MINIMUM	268										
	END	437										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A03P03-SR4	START	865					242	519	795			
	MINIMUM	347					237	383	529			
	END	523					584	861	1138			
A03P35-SR4	START	865			321	519	716	1112				
	MINIMUM	347			279	383	488	696				
	END	523			663	861	1059	1454				
A03P04-SR4	START	865		369	616	863						
	MINIMUM	347		304	435	565						
	END	523		711	958	1205						
A03P05-SR4	START	865	704	1097								
	MINIMUM	347	481	688								
	END	523	1046	1439								
A03P06-SR4	START	865										
	MINIMUM	347										
	END	523										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A03P03-SR3	START	1435								641	987	1333
	MINIMUM	546								549	732	915
	END	750								1326	1672	2018
A03P35-SR3	START	1435						542	937	1531		
	MINIMUM	546						497	706	1019		
	END	750						1227	1623	2216		
A03P04-SR3	START	1435					540	1033	1527			
	MINIMUM	546					496	757	1017			
	END	750					1225	1719	2212			
A03P05-SR3	START	1435		526	919	1311	1704					
	MINIMUM	546		489	696	903	1110					
	END	750		1212	1604	1997	2389					
A03P06-SR3	START	1435	845	1416	1986							
	MINIMUM	546	657	958	1259							
	END	750	1531	2101	2671							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A03P03-SR2	START	1803									619	965
	MINIMUM	680									599	781
	END	916									1507	1853
A03P35-SR2	START	1803								1163	1657	
	MINIMUM	680								886	1147	
	END	916								2050	2545	
A03P04-SR2	START	1803						666	1159	1900		
	MINIMUM	680						623	884	1275		
	END	916						1553	2047	2788		
A03P05-SR2	START	1803			551	943	1336					
	MINIMUM	680			563	770	977					
	END	916			1439	1831	2224					
A03P06-SR2	START	1803		1048	1618							
	MINIMUM	680		825	1126							
	END	916		1936	2506							

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			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A03P03-SR1	START	2224										
	MINIMUM	841										
	END	1139										
A03P35-SR1	START	2224								742	1,236	1,730
	MINIMUM	841								725	986	1,246
	END	1139								1,827	2,321	2,816
A03P04-SR1	START	2224								738	1,479	2,096
	MINIMUM	841								723	1,114	1,439
	END	1139								1,824	2,564	3,182
A03P05-SR1	START	2224					915	1,700	2,484			
	MINIMUM	841					816	1,230	1,644			
	END	1139					2,000	2,785	3,570			
A03P06-SR1	START	2224		627	1,197	1,767	2,338					
	MINIMUM	841		664	965	1,266	1,567					
	END	1139		1,712	2,283	2,853	3,423					
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A04P04-SR5	START	1202			599	900	1200					
	MINIMUM	526			425	584	742					
	END	900			901	1202	1502					
A04P05-SR5	START	1202	736	1221	1705							
	MINIMUM	526	497	753	1009							
	END	900	1038	1523	2007							
A04P06-SR5	START	1202	1637	2347	3057							
	MINIMUM	526	973	1348	1722							
	END	900	1939	2649	3359							
A04P07-SR5	START	1202	2832									
	MINIMUM	526	1603									
	END	900	3133									
A04P08-SR5	START	1202										
	MINIMUM	526										
	END	900										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A04P04-SR4	START	1966							1037	1638	2538	
	MINIMUM	847							737	1054	1530	
	END	1424							1579	2179	3080	
A04P05-SR4	START	1966			942	1426	1911					
	MINIMUM	847			687	943	1199					
	END	1424			1483	1968	2453					
A04P06-SR4	START	1966	874	1584	2293							
	MINIMUM	847	651	1026	1400							
	END	1424	1415	2125	2835							
A04P07-SR4	START	1966	2068									
	MINIMUM	847	1281									
	END	1424	2610									
A04P08-SR4	START	1966										
	MINIMUM	847										
	END	1424										

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A04P04-SR3	START	2520								1083	1984	2735	
	MINIMUM	1465								436	912	1308	
	END	1741								1862	2763	3514	
A04P05-SR3	START	2520				872	1357	2326					
	MINIMUM	1465				325	581	1092					
	END	1741				1651	2136	3105					
A04P06-SR3	START	2520			1739	2449							
	MINIMUM	1465			783	1157							
	END	1741			2518	3228							
A04P07-SR3	START	2520	1514	2522	3531								
	MINIMUM	1465	664	1196	1728								
	END	1741	2293	3301	4310								
A04P08-SR3	START	2520											
	MINIMUM	1465											
	END	1741											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A04P04-SR2	START	3504										1751	2502
	MINIMUM	1465										1308	1704
	END	2357										2897	3648
A04P05-SR2	START	3504							1342	2311	3765		
	MINIMUM	1465							1092	1604	2371		
	END	2357							2488	3458	4911		
A04P06-SR2	START	3504				1465	2175	3595					
	MINIMUM	1465				1157	1532	2281					
	END	2357				2612	3321	4741					
A04P07-SR2	START	3504		1539	2547	3555	4564						
	MINIMUM	1465		1196	1728	2260	2793						
	END	2357		2685	3693	4702	5710						
A04P08-SR2	START	3504	1798	3124	4450								
	MINIMUM	1465	1333	2033	2732								
	END	2357	2945	4270	5596								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A04P04-SR1	START	4636										618	1369
	MINIMUM	1927										847	1243
	END	3071										2184	2935
A04P05-SR1	START	4636										2632	3844
	MINIMUM	1927										1909	2549
	END	3071										4198	5409
A04P06-SR1	START	4636							2462	3882			
	MINIMUM	1927							1820	2569			
	END	3071							4028	5447			
A04P07-SR1	START	4636				2423	3431	5448					
	MINIMUM	1927				1799	2331	3396					
	END	3071				3988	4997	7014					
A04P08-SR1	START	4636		1991	3317	4642							
	MINIMUM	1927		1571	2271	2970							
	END	3071		3557	4882	6208							

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			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A05P05-SR5	START	2915							2823			
	MINIMUM	1291							1737			
	END	2250							3488			
A05P06-SR5	START	2915			2129	2969						
	MINIMUM	1291			1371	1814						
	END	2250			2793	3634						
A05P07-SR5	START	2915	1862	3056								
	MINIMUM	1291	1230	1860								
	END	2250	2527	3721								
A05P08-SR5	START	2915	3364									
	MINIMUM	1291	2022									
	END	2250	4029									
A05P09-SR5	START	2915										
	MINIMUM	1291										
	END	2250										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A05P05-SR4	START	3805					786	1933	3081			
	MINIMUM	1674					749	1355	1960			
	END	2891					1700	2848	3995			
A05P06-SR4	START	3805				2079	2920					
	MINIMUM	1674				1432	1875					
	END	2891				2994	3834					
A05P07-SR4	START	3805		2166	3360	4554						
	MINIMUM	1674		1477	2108	2738						
	END	2891		3080	4274	5469						
A05P08-SR4	START	3805	2474	4044								
	MINIMUM	1674	1640	2468								
	END	2891	3388	4958								
A05P09-SR4	START	3805	4176									
	MINIMUM	1674	2538									
	END	2891	5090									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A05P05-SR3	START	4745							2141	3862	5297	
	MINIMUM	2499							1136	2044	2801	
	END	3537							3349	5071	6505	
A05P06-SR3	START	4745						3661	5342			
	MINIMUM	2499						1938	2825			
	END	3537						4869	6550			
A05P07-SR3	START	4745			2420	3614	4808					
	MINIMUM	2499			1283	1913	2543					
	END	3537			3628	4823	6017					
A05P08-SR3	START	4745		3103	4673							
	MINIMUM	2499		1644	2472							
	END	3537		4312	5881							
A05P09-SR3	START	4745	3236	5231								
	MINIMUM	2499	1714	2767								
	END	3537	4444	6439								

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A05P05-SR2	START	5808									2800	4234	5669
	MINIMUM	2499									2044	2801	3558
	END	4187									4421	5855	7290
A05P06-SR2	START	5808						2598	4279				
	MINIMUM	2499						1938	2825				
	END	4187						4219	5900				
A05P07-SR2	START	5808				2551	3746	6134					
	MINIMUM	2499				1913	2543	3804					
	END	4187				4172	5367	7755					
A05P08-SR2	START	5808			3610	5180	6750						
	MINIMUM	2499			2472	3300	4129						
	END	4187			5231	6801	8371						
A05P09-SR2	START	5808	2173	4168	6164								
	MINIMUM	2499	1714	2767	3820								
	END	4187	3794	5789	7785								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A05P05-SR1	START	6725										3318	4752
	MINIMUM	2896										2404	3161
	END	4861										5181	6616
A05P06-SR1	START	6725							3363	5884			
	MINIMUM	2896							2427	3758			
	END	4861							5226	7748			
A05P07-SR1	START	6725					2829	5217					
	MINIMUM	2896					2146	3406					
	END	4861					4693	7081					
A05P08-SR1	START	6725				4263	5833						
	MINIMUM	2896				2903	3731						
	END	4861				6127	7697						
A05P09-SR1	START	6725		3252	5247	7242							
	MINIMUM	2896		2369	3422	4475							
	END	4861		5115	7111	9106							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P05-SR5	START	5325				4377	5763						
	MINIMUM	2347				2774	3506						
	END	4061				5641	7027						
A06P06-SR5	START	5325		3817	5645								
	MINIMUM	2347		2478	3443								
	END	4061		5080	6908								
A06P07-SR5	START	5325	3993	6323									
	MINIMUM	2347	2571	3801									
	END	4061	5257	7586									
A06P08-SR5	START	5325	6798										
	MINIMUM	2347	4051										
	END	4061	8061										
A06P09-SR5	START	5325											
	MINIMUM	2347											
	END	4061											

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P05-SR4	START	7368						3721	6493				
	MINIMUM	3185						2667	4130				
	END	5374						5714	8486				
A06P06-SR4	START	7368			3602	5430	7259						
	MINIMUM	3185			2604	3569	4534						
	END	5374			5596	7424	9252						
A06P07-SR4	START	7368		4280	6609	8939							
	MINIMUM	3185		2962	4191	5421							
	END	5374		6274	8603	10933							
A06P08-SR4	START	7368	4755	7786	10816								
	MINIMUM	3185	3213	4812	6412								
	END	5374	6749	9779	12810								
A06P09-SR4	START	7368	9965										
	MINIMUM	3185	5962										
	END	5374	11958										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P05-SR3	START	8922							4938	7710			
	MINIMUM	4606							2709	4172			
	END	6593							7267	10039			
A06P06-SR3	START	8922					5704	9361					
	MINIMUM	4606					3113	5043					
	END	6593					8033	11689					
A06P07-SR3	START	8922			5055	7385	9714						
	MINIMUM	4606			2771	4000	5230						
	END	6593			7384	9713	12043						
A06P08-SR3	START	8922		6231	9262								
	MINIMUM	4606		3391	4991								
	END	6593		8560	11590								
A06P09-SR3	START	8922	8410	12744									
	MINIMUM	4606	4542	6828									
	END	6593	10739	15072									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P05-SR2	START	10609								6023	10181	13646	
	MINIMUM	4606								4172	6367	8195	
	END	7815								8817	12975	16440	
A06P06-SR2	START	10609							7674	11330			
	MINIMUM	4606							5043	6973			
	END	7815							10468	14124			
A06P07-SR2	START	10609				5697	8027	12686					
	MINIMUM	4606				4000	5230	7689					
	END	7815				8491	10821	15480					
A06P08-SR2	START	10609			7575	10605							
	MINIMUM	4606			4991	6590							
	END	7815			10369	13399							
A06P09-SR2	START	10609	6723	11056									
	MINIMUM	4606	4542	6828									
	END	7815	9517	13850									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P05-SR1	START	12877								3755	7913	11378	
	MINIMUM	5495								3283	5478	7306	
	END	9104								7529	11687	15152	
A06P06-SR1	START	12877							5406	9062			
	MINIMUM	5495							4154	6084			
	END	9104							9179	12836			
A06P07-SR1	START	12877						5759	10418				
	MINIMUM	5495						4341	6799				
	END	9104						9533	14192				
A06P08-SR1	START	12877				8337	11368						
	MINIMUM	5495				5701	7301						
	END	9104				12111	15142						
A06P09-SR1	START	12877		8788	13122								
	MINIMUM	5495		5939	8226								
	END	9104		12562	16895								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08-SR5	START	10308				4129	6192	10317					
	MINIMUM	4489				3131	4219	6396					
	END	7648				6789	8851	12976					
A07P09-SR5	START	10308				8101	10731						
	MINIMUM	4489				5227	6615						
	END	7648				10761	13391						
A07P10-SR5	START	10308		6810	10234	13658							
	MINIMUM	4489		4546	6352	8159							
	END	7648		9470	12893	16317							
A07P12-SR5	START	10308	9285	14183									
	MINIMUM	4489	5851	8436									
	END	7648	11944	16842									
A07P14-SR5	START	10308	13320										
	MINIMUM	4489	7981										
	END	7648	15979										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08-SR4	START	11982						8643	12768				
	MINIMUM	5319						5567	7744				
	END	9293						11332	15457				
A07P09-SR4	START	11982					9057	14317					
	MINIMUM	5319					5785	8561					
	END	9293					11746	17006					
A07P10-SR4	START	11982			8560	11983	15407						
	MINIMUM	5319			5523	7330	9137						
	END	9293			11249	14673	18096						
A07P12-SR4	START	11982	7610	12508									
	MINIMUM	5319	5022	7607									
	END	9293	10300	15198									
A07P14-SR4	START	11982	11646										
	MINIMUM	5319	7152										
	END	9293	14335										

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08-SR3	START	14422							6202	10327	16514		
	MINIMUM	6365							4521	6698	9963		
	END	11036							9589	13714	19901		
A07P09-SR3	START	14422					6617	11876					
	MINIMUM	6365					4739	7515					
	END	11036					10003	15263					
A07P10-SR3	START	14422				9543	12966						
	MINIMUM	6365				6284	8091						
	END	11036				12929	16353						
A07P12-SR3	START	14422		10068	14966								
	MINIMUM	6365		6561	9146								
	END	11036		13454	18353								
A07P14-SR3	START	14422	9205	15112									
	MINIMUM	6365	6106	9223									
	END	11036	12592	18499									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08-SR2	START	17083								7666	13854	19010	
	MINIMUM	7478								5584	8850	11571	
	END	12829								11920	18107	23264	
A07P09-SR2	START	17083							9216	14475	22365		
	MINIMUM	7478							6402	9178	13342		
	END	12829							13469	18729	26619		
A07P10-SR2	START	17083					10306	17153					
	MINIMUM	7478					6977	10591					
	END	12829					14559	21407					
A07P12-SR2	START	17083		7407	12305	17203							
	MINIMUM	7478		5447	8032	10618							
	END	12829		11661	16559	21457							
A07P14-SR2	START	17083	6545	12452	18358								
	MINIMUM	7478	4992	8110	11227								
	END	12829	10798	16705	22612								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08-SR1	START	19800									11136	16293	
	MINIMUM	8575									7753	10474	
	END	14499									16438	21594	
A07P09-SR1	START	19800								11758	19648		
	MINIMUM	8575								8081	12245		
	END	14499								17059	24949		
A07P10-SR1	START	19800					7588	14436					
	MINIMUM	8575					5880	9494					
	END	14499					12890	19737					
A07P12-SR1	START	19800			9588	14486	19384	29180					
	MINIMUM	8575			6936	9521	12106	17276					
	END	14499			14889	19787	24685	34482					
A07P14-SR1	START	19800		9734	15641	21548							
	MINIMUM	8575		7013	10130	13248							
	END	14499		15035	20942	26849							

ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P09-SR5	START	15831						10326	16865				
	MINIMUM	7120						6685	10136				
	END	12650						13506	20045				
A08P10-SR5	START	15831			9740	14002							
	MINIMUM	7120			6375	8625							
	END	12650			12920	17182							
A08P12-SR5	START	15831		14694	20798								
	MINIMUM	7120		8990	12212								
	END	12650		17874	23979								
A08P14-SR5	START	15831	13633	20999									
	MINIMUM	7120	8430	12318									
	END	12650	16813	24179									
A08P16-SR5	START	15831	23075										
	MINIMUM	7120	13413										
	END	12650	26255										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P09-SR4	START	17336						8821	15360				
	MINIMUM	7732						6072	9524				
	END	13594						12563	19102				
A08P10-SR4	START	17336				12496	16758						
	MINIMUM	7732				8012	10262						
	END	13594				16238	20500						
A08P12-SR4	START	17336		13188	19293								
	MINIMUM	7732		8378	11600								
	END	13594		16930	23035								
A08P14-SR4	START	17336	12128	19494									
	MINIMUM	7732	7818	11705									
	END	13594	15870	23236									
A08P16-SR4	START	17336	21570										
	MINIMUM	7732	12801										
	END	13594	25311										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P09-SR3	START	22421							10275	16814			
	MINIMUM	9994							7262	10713			
	END	17556							15140	21679			
A08P10-SR3	START	22421						11673	20196				
	MINIMUM	9994						8000	12498				
	END	17556						16538	25061				
A08P12-SR3	START	22421			14208	20313	26417						
	MINIMUM	9994			9338	12560	15782						
	END	17556			19073	25178	31283						
A08P14-SR3	START	22421		14408	21774								
	MINIMUM	9994		9443	13331								
	END	17556		19273	26639								
A08P16-SR3	START	22421	16484	26210									
	MINIMUM	9994	10539	15672									
	END	17556	21349	31076									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P09-SR2	START	26469								12766	22574	30748	
	MINIMUM	11716								8991	14168	18482	
	END	20395								18840	28648	36822	
A08P10-SR2	START	26469							16148	24672			
	MINIMUM	11716							10776	15275			
	END	20395							22222	30745			
A08P12-SR2	START	26469				16265	22369						
	MINIMUM	11716				10838	14060						
	END	20395				22338	28443						
A08P14-SR2	START	26469			17726	25092							
	MINIMUM	11716			11609	15497							
	END	20395			23800	31166							
A08P16-SR2	START	26469	12436	22163	31889								
	MINIMUM	11716	8817	13951	19084								
	END	20395	18510	28236	37963								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P09-SR1	START	29518									19525	27699	
	MINIMUM	12811									13073	17387	
	END	21724									27319	35493	
A08P10-SR1	START	29518							13099	21623	34408		
	MINIMUM	12811							9682	14180	20928		
	END	21724							20893	29417	42202		
A08P12-SR1	START	29518					19320	31530					
	MINIMUM	12811					12965	19409					
	END	21724					27114	39324					
A08P14-SR1	START	29518	(55)	7311	14677	22043	29409						
	MINIMUM	12811	2740	6627	10515	14402	18290						
	END	21724	7739	15105	22471	29837	37203						
A08P16-SR1	START	29518	9387	19114	28840								
	MINIMUM	12811	7723	12856	17989								
	END	21724	17181	26907	36634								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10-SR5	START	28644						9933	19578	29222			
	MINIMUM	12478						7883	12973	18063			
	END	21267						17311	26955	36600			
A09P12-SR5	START	28644			13507	20532	27557						
	MINIMUM	12478			9769	13476	17184						
	END	21267			20884	27909	34934						
A09P14-SR5	START	28644		19499	29127	38756							
	MINIMUM	12478		12931	18013	23095							
	END	21267		26876	36505	46133							
A09P16-SR5	START	28644	21886	34519									
	MINIMUM	12478	14191	20858									
	END	21267	29264	41896									
A09P20-SR5	START	28644											
	MINIMUM	12478											
	END	21267											

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10-SR4	START	37256							10966	20610	35077	47132	
	MINIMUM	16360							9091	14181	21816	28179	
	END	28182							20040	29685	44151	56207	
A09P12-SR4	START	37256				11920	18945	32995	47045				
	MINIMUM	16360				9594	13302	20718	28133				
	END	28182				20994	28019	42070	56120				
A09P14-SR4	START	37256			20515	30144	39772						
	MINIMUM	16360			14131	19213	24295						
	END	28182			29590	39218	48847						
A09P16-SR4	START	37256	13274	25907	38539								
	MINIMUM	16360	10309	16977	23644								
	END	28182	22349	34981	47614								
A09P20-SR4	START	37256	42112										
	MINIMUM	16360	25530										
	END	28182	51187										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10-SR3	START	46537									25796	37852	49907
	MINIMUM	20430									17746	24109	30471
	END	35182									37151	49206	61262
A09P12-SR3	START	46537						23715	37765	58840			
	MINIMUM	20430						16647	24063	35186			
	END	35182						35069	49120	70195			
A09P14-SR3	START	46537				20863	30492	49749					
	MINIMUM	20430				15143	20224	30388					
	END	35182				32218	41847	61104					
A09P16-SR3	START	46537	3994	16626	29259	41891	54524						
	MINIMUM	20430	6239	12906	19574	26241	32908						
	END	35182	15348	27981	40614	53246	65879						
A09P20-SR3	START	46537	32832	52674									
	MINIMUM	20430	21459	31932									
	END	35182	44187	64029									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10-SR2	START	56078									16255	28310	40366
	MINIMUM	24548									13628	19991	26353
	END	42113									30220	42275	54331
A09P12-SR2	START	56078							28224	49299	66862		
	MINIMUM	24548							19945	31068	40337		
	END	42113							42188	63264	80827		
A09P14-SR2	START	56078					20951	40208	59465				
	MINIMUM	24548					16106	26270	36433				
	END	42113					34916	54173	73430				
A09P16-SR2	START	56078			19718	32350	44983	70248					
	MINIMUM	24548			15455	22123	28790	42124					
	END	42113			33682	46315	58948	84213					
A09P20-SR2	START	56078	23291	43133	62975								
	MINIMUM	24548	17341	27814	38286								
	END	42113	37256	57098	76940								

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10-SR1	START	67734									4599	16654	28710
	MINIMUM	29206									8970	15332	21695
	END	49091									23242	35298	47353
A09P12-SR1	START	67734							16567	37643	55206	72769	
	MINIMUM	29206							15286	26409	35679	44948	
	END	49091							35211	56286	73849	91412	
A09P14-SR1	START	67734					9295	28552	47809	76695			
	MINIMUM	29206					11448	21611	31775	47020			
	END	49091					27938	47195	66452	95338			
A09P16-SR1	START	67734			8061	20694	33327	58592	83857				
	MINIMUM	29206			10797	17464	24131	37466	50800				
	END	49091			26705	39337	51970	77235	102500				
A09P20-SR1	START	67734	11635	31477	51319	71161							
	MINIMUM	29206	12683	23155	33627	44100							
	END	49091	30278	50120	69962	89805							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A10P12-SR5	START	66808							18847	35978	61674	83088	
	MINIMUM	28440							16767	25808	39370	50672	
	END	46952							38703	55834	81531	102944	
A10P14-SR5	START	66808			15424	27172	50667	74162					
	MINIMUM	28440			14961	21161	33561	45961					
	END	46952			35281	47028	70523	94018					
A10P16-SR5	START	66808			18273	32454	46634	74994					
	MINIMUM	28440			16464	23948	31432	46400					
	END	46952			38130	52310	66490	94851					
A10P20-SR5	START	66808	23300	45827	68354	90880							
	MINIMUM	28440	19117	31006	42895	54785							
	END	46952	43156	65683	88210	110737							
A10P24-SR5	START	66808	64274	97045									
	MINIMUM	28440	40742	58038									
	END	46952	84130	116901									
A10P28-SR5	START	66808											
	MINIMUM	28440											
	END	46952											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A10P12-SR4	START	85848							16938	42634	64048	85462	
	MINIMUM	36288							17960	31522	42824	54126	
	END	59304							43482	69178	90592	112006	
A10P14-SR4	START	85848						31627	55122	90365			
	MINIMUM	36288						25713	38113	56713			
	END	59304						58171	81666	116908			
A10P16-SR4	START	85848			13414	27594	55954	84315					
	MINIMUM	36288			16100	23584	38552	53520					
	END	59304			39957	54138	82498	110859					
A10P20-SR4	START	85848	26786	49313	71840	94367							
	MINIMUM	36288	23158	35047	46936	58826							
	END	59304	53330	75857	98384	120911							
A10P24-SR4	START	85848	45234	78005	110775								
	MINIMUM	36288	32894	50190	67485								
	END	59304	71778	104549	137319								
A10P28-SR4	START	85848	105067										
	MINIMUM	36288	64473										
	END	59304	131611										

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A10P12-SR3	START	103228								25255	46668	68082
	MINIMUM	43698								24113	35414	46716
	END	71563								56920	78334	99747
A10P14-SR3	START	103228							37742	72985	102354	
	MINIMUM	43698							30703	49304	64804	
	END	71563							69408	104650	134019	
A10P16-SR3	START	103228					10214	38575	66935	109476		
	MINIMUM	43698					16175	31143	46111	68563		
	END	71563					41879	70240	98600	141141		
A10P20-SR3	START	103228		9407	31934	54461	76988	122042				
	MINIMUM	43698		15748	27638	39527	51416	75195				
	END	71563		41072	63599	86126	108653	153707				
A10P24-SR3	START	103228	27855	60625	93396	126166						
	MINIMUM	43698	25485	42780	60076	77372						
	END	71563	59520	92290	125061	157832						
A10P28-SR3	START	103228	87687	135416								
	MINIMUM	43698	57063	57063								
	END	71563	119352	167081								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A10P12-SR2	START	117314										
	MINIMUM	50370										
	END	84165										
A10P14-SR2	START	117314							23656	58899	88268	117637
	MINIMUM	50370							24031	42632	58132	73632
	END	84165							56805	92048	121417	150786
A10P16-SR2	START	117314						24489	52849	95390	130841	
	MINIMUM	50370						24471	39439	61891	80601	
	END	84165						57638	85998	128539	163990	
A10P20-SR2	START	117314			17848	40375	62902	107956	153010			
	MINIMUM	50370			20966	32855	44744	68523	92301			
	END	84165			50997	73524	96051	141105	186159			
A10P24-SR2	START	117314		46539	79310	112080	144851	210392				
	MINIMUM	50370		36108	53404	70700	87995	122586				
	END	84165		79688	112459	145229	178000	243541				
A10P28-SR2	START	117314	73601	121330	169059							
	MINIMUM	50370	50391	50391	50391							
	END	84165	106750	154479	202208							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)									
			40	50	60	70	80	100	120	150	175	200
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN									
A10P12-SR1	START	151672										19638
	MINIMUM	62038										28375
	END	96481										74829
A10P14-SR1	START	151672								24541	53910	83278
	MINIMUM	62038								30963	46463	61963
	END	96481								79732	109101	138469
A10P16-SR1	START	151672							18491	61032	96483	131933
	MINIMUM	62038							27770	50222	68932	87642
	END	96481							73682	116223	151674	187124
A10P20-SR1	START	151672			6017	28544	73598	118651	186232			
	MINIMUM	62038			21186	33076	56854	80632	116300			
	END	96481			61208	83735	128789	173842	241423			
A10P24-SR1	START	151672		12181	44952	77722	110493	176034				
	MINIMUM	62038		24440	41735	59031	76327	110918				
	END	96481		67372	100143	132913	165684	231225				
A10P28-SR1	START	151672	39243	86972	134701	182429						
	MINIMUM	62038	38723	38723	38723	38723						
	END	96481	94434	142163	189892	237620						

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P16-SR5	START	136186						6769	42507	78246	131854	176527	221200
	MINIMUM	53194						22254	41116	59978	88271	111849	135426
	END	76592						66363	102101	137840	191448	236121	280794
A11P20-SR5	START	136186		6276	34768	63261	91753	148738					
	MINIMUM	53194		21994	37031	52069	67107	97182					
	END	76592		65870	94362	122855	151347	208332					
A11P24-SR5	START	136186	29933	71463	112993	154523							
	MINIMUM	53194	34480	56398	78316	100235							
	END	76592	89527	131057	172587	214116							
A11P28-SR5	START	136186	106084	166651									
	MINIMUM	53194	74670	106636									
	END	76592	165678	226245									
A11P32-SR5	START	136186	180850										
	MINIMUM	53194	114130										
	END	76592	240444										
A11P36-SR5	START	136186											
	MINIMUM	53194											
	END	76592											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P12-SR4	START	179263								35169	88777	133450	178123
	MINIMUM	71343								41829	70123	93700	117278
	END	106108								108324	161932	206605	251278
A11P14-SR4	START	179263				20183	48676	105661	162645	248122			
	MINIMUM	71343				33921	48958	79034	109109	154222			
	END	106108				93338	121831	178816	235800	321277			
A11P16-SR4	START	179263		28386	69915	111445	152975	236034					
	MINIMUM	71343		38250	60168	82087	104005	147842					
	END	106108		101541	143070	184600	226130	309190					
A11P20-SR4	START	179263	63007	123574	184141								
	MINIMUM	71343	56522	88488	120454								
	END	106108	136162	196729	257296								
A11P24-SR4	START	179263	137773	217032									
	MINIMUM	71343	95982	137813									
	END	106108	210928	290187									
A11P28-SR4	START	179263	222508										
	MINIMUM	71343	140703										
	END	106108	295663										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P12-SR3	START	233003									35037	79710	124383
	MINIMUM	92097									49368	72946	96523
	END	135386									132653	177327	222000
A11P14-SR3	START	233003						51921	108905	194382	265613		
	MINIMUM	92097						58279	88354	133467	171061		
	END	135386						149538	206522	291999	363230		
A11P16-SR3	START	233003				57705	99235	182294	265354				
	MINIMUM	92097				61332	83251	127088	170924				
	END	135386				155322	196852	279911	362971				
A11P20-SR3	START	233003		69834	130401	190969	251536						
	MINIMUM	92097		67733	99700	131666	163632						
	END	135386		167451	228018	288586	349153						
A11P24-SR3	START	233003	84033	163292	242551								
	MINIMUM	92097	75227	117058	158889								
	END	135386	181650	260909	340168								
A11P28-SR3	START	233003	168768	269211									
	MINIMUM	92097	119948	172960									
	END	135386	266385	366828									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P12-SR2	START	264529											92857
	MINIMUM	107439											81182
	END	165227											23394
A11P14-SR2	START	264529								77380	162857	234088	
	MINIMUM	107439								73013	118126	155720	
	END	165227								176682	262159	333390	
A11P16-SR2	START	264529					67709	150769	233828	358418			
	MINIMUM	107439					67909	111746	155583	221338			
	END	165227					167011	250071	333130	457720			
A11P20-SR2	START	264529			98876	159443	220010	341145	462280				
	MINIMUM	107439			84358	116324	148290	212222	276155				
	END	165227			198178	258745	319313	440447	561582				
A11P24-SR2	START	264529		131766	211025	290284	369543						
	MINIMUM	107439		101717	143548	185379	227210						
	END	165227		231068	310327	389586	468845						
A11P28-SR2	START	264529	137242	237685	338128								
	MINIMUM	107439	104607	157618	210630								
	END	165227	236544	336987	437430								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P12-SR1	START	316449											40938
	MINIMUM	127769											60852
	END	194628											162759
A11P14-SR1	START	316449								25460	110937	182168	253399
	MINIMUM	127769								52683	97796	135390	172984
	END	194628								147281	232758	303989	375220
A11P16-SR1	START	316449							98849	181909	306498		
	MINIMUM	127769							91416	135253	201008		
	END	194628							220670	303730	428319		
A11P20-SR1	START	316449				107523	168091	289226	410361				
	MINIMUM	127769				95994	127960	191892	255825				
	END	194628				229344	289912	411047	532182				
A11P24-SR1	START	316449		79846	159105	238364	317623	476141					
	MINIMUM	127769		81387	123218	165049	206880	290542					
	END	194628		201667	280926	360185	439444	597962					
A11P28-SR1	START	316449	85323	185765	286208	386651							
	MINIMUM	127769	84277	137288	190300	243311							
	END	194628	207143	307586	408029	508472							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A12P20-SR4	START	313506								99876	203221	289343	375464
	MINIMUM	126222								91952	146495	191948	237401
	END	191382								222000	325346	411467	497589
A12P24-SR4	START	313506					88731	189290	289849	440688			
	MINIMUM	126222					86070	139143	192216	271825			
	END	191382					210855	311415	411974	562813			
A12P28-SR4	START	313506			126874	200271	273668	420462					
	MINIMUM	126222			106201	144938	183676	261150					
	END	191382			248999	322396	395793	542586					
A12P32-SR4	START	313506		166962	263056	359150	455243						
	MINIMUM	126222		127359	178075	228791	279507						
	END	191382		289087	385180	481274	577368						
A12P36-SR4	START	313506	173761	295578	417395								
	MINIMUM	126222	130947	195239	259531								
	END	191382	295886	417702	539519								

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A12P20-SR3	START	368092								45291	148636	234757	320879
	MINIMUM	147085								71089	125632	171085	216538
	END	220248								193134	296479	382601	468722
A12P24-SR3	START	368092					34145	134705	235264	386103			
	MINIMUM	147085					65207	118280	171353	250962			
	END	220248					181989	282548	383107	533946			
A12P28-SR3	START	368092			72289	145686	219083	365876					
	MINIMUM	147085			85338	124075	162813	240287					
	END	220248			220132	293529	366926	513720					
A12P32-SR3	START	368092	16283	112377	208471	304564	400658						
	MINIMUM	147085	55779	106496	157212	207928	258644						
	END	220248	164126	260220	356314	452407	548501						
A12P36-SR3	START	368092	119176	240993	362809								
	MINIMUM	147085	110084	174376	238668								
	END	220248	267019	388836	510653								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A12P20-SR2	START	451522									65206	151327	237449
	MINIMUM	181511									91207	136660	182112
	END	274521									242207	328328	414449
A12P24-SR2	START	451522						51275	151834	302673	428372	554071	
	MINIMUM	181511						83854	136927	216536	282878	349219	
	END	274521						228275	328835	479673	605372	731072	
A12P28-SR2	START	451522				62256	135653	282446	429240	649430			
	MINIMUM	181511				89650	128387	205861	283336	399547			
	END	274521				239256	312653	459447	606240	826431			
A12P32-SR2	START	451522		28947	125040	221134	317228	509415					
	MINIMUM	181511		72070	122786	173502	224218	325650					
	END	274521		205947	302041	398135	494228	686416					
A12P36-SR2	START	451522	35746	157562	279379	401196	523013						
	MINIMUM	181511	75658	139950	204243	268535	332827						
	END	274521	212746	334563	456380	578197	700014						
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A12P20-SR1	START	505468									11260	97381	183502
	MINIMUM	200832									71886	117339	162792
	END	297858									218869	304991	391112
A12P24-SR1	START	505468							97887	248726	374425		
	MINIMUM	200832							117606	197215	263557		
	END	297858							305497	456336	582035		
A12P28-SR1	START	505468					81706	228500	375293	595484			
	MINIMUM	200832					109066	186540	264015	380226			
	END	297858					289316	436110	582903	803094			
A12P32-SR1	START	505468			71094	167188	263281	455469	647656				
	MINIMUM	200832			103465	154181	204897	306330	407762				
	END	297858			278704	374797	470891	663079	855266				
A12P36-SR1	START	505468		103616	225433	347250	469067	712700					
	MINIMUM	200832		120629	184922	249214	313506	442091					
	END	297858		311226	433043	554860	676676	920310					

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A13P20-SR5	START	365438						117197	237856	358515			
	MINIMUM	133209						121516	185197	248878			
	END	167396						315239	435898	556557			
A13P24-SR5	START	365438		75592	163798	252004	340210	516622					
	MINIMUM	133209		99557	146110	192664	239217	332323					
	END	167396		273634	361840	450046	538252	714664					
A13P28-SR5	START	365438	96865	212441	328017	443592							
	MINIMUM	133209	110785	171783	232781	293780							
	END	167396	294907	410483	526059	641635							
A13P32-SR5	START	365438	220941	367536	514131								
	MINIMUM	133209	176270	253639	331009								
	END	167396	418984	565579	712173								
A13P36-SR5	START	365438	359615	540878									
	MINIMUM	133209	249458	345125									
	END	167396	557657	738921									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A13P20-SR3	START	613677								110276	291264	442088	592912
	MINIMUM	232020								150066	245588	325189	404791
	END	314403								409550	590538	741362	892185
A13P24-SR3	START	613677						268383	444795	709413			
	MINIMUM	232020						233512	326618	466278			
	END	314403						567657	744069	1008687			
A13P28-SR3	START	613677			79778	195354	310930	542081	773233				
	MINIMUM	232020			133970	194968	255967	377963	499960				
	END	314403			379052	494628	610203	841355	1072507				
A13P32-SR3	START	613677		119298	265893	412487	559082	852272					
	MINIMUM	232020		154828	232197	309567	386936	541675					
	END	314403		418572	565166	711761	858356	1151546					
A13P36-SR3	START	613677	111376	292640	473903	655166							
	MINIMUM	232020	150647	246314	341980	437647							
	END	314403	410650	591914	773177	954440							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A13P20-SR2	START	567899								156054	337042	487866	638689
	MINIMUM	245173								136913	232435	312036	391637
	END	412794								311159	492147	642971	793794
A13P24-SR2	START	567899					137749	314161	490573	755191			
	MINIMUM	245173					127252	220358	313465	453124			
	END	412794					292854	469266	645678	910296			
A13P28-SR2	START	567899				241132	356707	587859					
	MINIMUM	245173				181815	242813	364810					
	END	412794				396237	511813	742964					
A13P32-SR2	START	567899		165076	311670	458265	604860						
	MINIMUM	245173		141674	219044	296413	373783						
	END	412794		320181	466776	613370	759965						
A13P36-SR2	START	567899	157154	338418	519681	700944							
	MINIMUM	245173	137494	233161	328827	424494							
	END	412794	312259	493523	674786	856049							

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)														
			40	50	60	70	80	100	120	150	175	200					
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN														
A13P20-SR1	START	668519								55434	236422	387245	538069				
	MINIMUM	288376								93710	189232	268833	348434				
	END	484985								238968	419956	570779	721603				
A13P24-SR1	START	668519							213541	389953	654571	875086					
	MINIMUM	288376							177155	270262	409921	526304					
	END	484985							397075	573487	838105	1058620					
A13P28-SR1	START	668519				140511	256087	487239	718390								
	MINIMUM	288376				138612	199610	321607	443604								
	END	484985				324045	439621	670773	901924								
A13P32-SR1	START	668519				211050	357645	504240	797430								
	MINIMUM	288376				175841	253210	330580	485319								
	END	484985				394584	541179	687774	980963								
A13P36-SR1	START	668519			237797	419060	600324	781587									
	MINIMUM	288376			189958	285624	381291	476958									
	END	484985			421331	602594	783858	965121									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)														
			40	50	60	70	80	100	120	150	175	200					
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN														
A14P28-SR3	START	1082063									442676	696799	950922				
	MINIMUM	429830									492742	646504	800266				
	END	637259									887480	1141603	1395726				
A14P32-SR3	START	1082063							251813	518588	918751	1252219					
	MINIMUM	429830							377257	538674	780800	982572					
	END	637259							696617	963392	1363554	1697023					
A14P34-SR3	START	1082063						272799	611514	950229							
	MINIMUM	429830						389954	594901	799847							
	END	637259						717602	1056318	1395033							
A14P36-SR3	START	1082063				175294	384854	594413	1013533								
	MINIMUM	429830				330958	457756	584554	838150								
	END	637259				620098	829658	1039217	1458336								
Actuator Model	Spring Torque START/MINIMUM/END (lb-in)		AIR PRESSURE PSI														
			40.0	50.0	60.0	70.0	80.0	100.0	120.0	150.0	175.0	200.0					
			Pneumatic Torque Output Start/Run/End in lb-in														
A14P28-SR2	START	1470146									54592	308715	562838				
	MINIMUM	591105									331467	485229	638991				
	END	894274									630464	884587	1138711				
A14P32-SR2	START	1470146								130504	530667	864136	1197605				
	MINIMUM	591105								377399	619525	821297	1023069				
	END	894274								706377	1106539	1440008	1773477				
A14P34-SR2	START	1470146							223430	562145	1070218	1493612					
	MINIMUM	591105							433626	638572	945991	1202174					
	END	894274							799302	1138018	1646091	2069485					
A14P36-SR2	START	1470146						206330	625449	1044568	1673246						
	MINIMUM	591105						423279	676875	930471	1310865						
	END	894274						782202	1201321	1620440	2249119						
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)														
			40	50	60	70	80	100	120	150	175	200					
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN														
A14P28-SR1	START	1735288											43573	297696			
	MINIMUM	687188											389146	542908			
	END	1013465											765397	1019520			
A14P32-SR1	START	1735288											265525	598994	932463		
	MINIMUM	687188											523442	725214	926986		
	END	1013465											987349	1320817	1654286		
A14P34-SR1	START	1735288											297003	805076	1228470	1651864	
	MINIMUM	687188											542489	849908	1106091	1362273	
	END	1013465											1018827	1526900	1950294	2373688	
A14P36-SR1	START	1735288											360307	779426	1408104	1932003	2455902
	MINIMUM	687188											580792	834388	1214782	1531777	1848772
	END	1013465											1082130	1501249	2129928	2653827	3177726

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A15P40-SR5	START	1098280		392420	690560	988699	1286839						
	MINIMUM	422152		364606	521958	679310	836661						
	END	590327		900372	1198512	1496652	1794792						
A15P44-SR5	START	1098280	348485	710176	1071867	1433559							
	MINIMUM	422152	341419	532311	723204	914096							
	END	590327	856438	1218129	1579820	1941511							
A15P48-SR5	START	1098280	626900	1058195	1489490								
	MINIMUM	422152	488360	715988	943616								
	END	590327	1134853	1566148	1997443								
A15P52-SR5	START	1098280	929526	1436477									
	MINIMUM	422152	648079	915637									
	END	590327	1437479	1944430									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A15P40-SR4	START	2204833					180286	776566	1372845	2267265			
	MINIMUM	841877					416936	731639	1046342	1518397			
	END	1162675					1222444	1818724	2415003	3309423			
A15P44-SR4	START	2204833			327005	688696	1412079	2135461					
	MINIMUM	841877			494371	685264	1067049	1448834					
	END	1162675			1369164	1730855	2454237	3177619					
A15P48-SR4	START	2204833		382937	814232	1245527	2108117						
	MINIMUM	841877		523891	751518	979146	1434402						
	END	1162675		1425095	1856390	2287685	3150275						
A15P52-SR4	START	2204833	329924	836875	1343826	1850778							
	MINIMUM	841877	495911	763469	1031027	1298584							
	END	1162675	1372082	1879033	2385985	2892936							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A15P40-SR3	START	2732323						845355	1739774	2485124			
	MINIMUM	1038920						849299	1321354	1714733			
	END	1423358						2154321	3048740	3794090			
A15P44-SR3	START	2732323					884588	1607971	2693044				
	MINIMUM	1038920					870005	1251790	1824468				
	END	1423358					2193554	2916936	4002010				
A15P48-SR3	START	2732323				718037	1580627	2443217					
	MINIMUM	1038920				782103	1237359	1692615					
	END	1423358				2027002	2889592	3752182					
A15P52-SR3	START	2732323			816336	1323287	2337190						
	MINIMUM	1038920			833983	1101541	1636656						
	END	1423358			2125302	2632253	3646156						
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (IB-IN)		OPERATING AIR PRESSURE (PSI)										
			40	50	60	70	80	100	120	150	175	200	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A15P40-SR2	START	3303112						274566	1168985	1914335	2659684		
	MINIMUM	1232872						655347	1127401	1520780	1914159		
	END	1753001						1824677	2719096	3464446	4209795		
A15P44-SR2	START	3303112					313799	1037182	2122255	3026483			
	MINIMUM	1232872					676053	1057838	1630516	2107747			
	END	1753001					1863910	2587293	3672366	4576594			
A15P48-SR2	START	3303112				147247	1009837	1872427	3166312				
	MINIMUM	1232872				588151	1043407	1498662	2181546				
	END	1753001				1697359	2559948	3422538	4716423				
A15P52-SR2	START	3303112			245547	752498	1766401	2780303					
	MINIMUM	1232872			640031	907589	1442704	1977819					
	END	1753001			1795658	2302609	3316512	4330414					

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