

CREDENCE B-SERIES SCOTCH YOKE ACTUATOR

PNEUMATIC SPRING RETURN SCOTCH YOKE ACTUATOR TORQUES.
TORQUE DATA IN METRIC (Nm)



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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)														
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0			
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM														
B01P15-SR5	START	16				7	9	12	16								
	MINIMUM	6				6	7	9	11								
	END	7				15	17	20	24								
B01P02-SR5	START	16	6	9	13	20	23										
	MINIMUM	6	5	7	9	13	15										
	END	7	14	17	21	28	31										
B01P23-SR5	START	16	15	20	25												
	MINIMUM	6	10	13	16												
	END	7	9	11	14												
B01P03-SR5	START	16	32	40													
	MINIMUM	6	19	24													
	END	7	40	48													
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)														
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0			
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM														
B01P15-SR4	START	20					5	7	12	16	21						
	MINIMUM	7					6	7	10	12	15						
	END	8					17	19	24	29	33						
B01P02-SR4	START	20	1	5	9	16	19	23									
	MINIMUM	7	4	6	8	12	14	16									
	END	8	14	17	21	28	31	35									
B01P23-SR4	START	20	11	16	21												
	MINIMUM	7	9	12	15												
	END	8	8	11	14												
B01P03-SR4	START	20	28	36													
	MINIMUM	7	18	23													
	END	8	40	48													
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)														
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0			
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM														
B01P15-SR3	START	31									10	15	24				
	MINIMUM	11									11	13	18				
	END	12									28	33	42				
B01P02-SR3	START	31					8	12	19	26	33						
	MINIMUM	11					10	12	15	19	23						
	END	12					27	30	37	44	51						
B01P23-SR3	START	31			10	20	25	30									
	MINIMUM	11			11	16	19	22									
	END	12			28	39	44	49									
B01P03-SR3	START	31	17	25	33												
	MINIMUM	11	14	19	23												
	END	12	35	43	51												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)														
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0			
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM														
B01P15-SR2	START	50													5	9	
	MINIMUM	16													12	15	
	END	16													38	43	
B01P02-SR2	START	50								7	14	21	35				
	MINIMUM	16								13	17	21	28				
	END	16								40	47	55	69				
B01P23-SR2	START	50					6	11	22	32	42						
	MINIMUM	16					13	16	21	27	32						
	END	16					40	45	55	65	75						
B01P03-SR2	START	50		6	14	30	38	46									
	MINIMUM	16		13	17	26	30	34									
	END	16		40	47	63	71	79									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B01P15-SR1	START	59													
	MINIMUM	20													
	END	20													
B01P02-SR1	START	59											11	25	32
	MINIMUM	20											17	25	29
	END	20											51	65	72
B01P23-SR1	START	59								12	22	32			
	MINIMUM	20								18	23	29			
	END	20								51	62	72			
B01P03-SR1	START	59				20	28	36	52						
	MINIMUM	20				22	26	31	39						
	END	20				60	68	76	91						
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B02P23-SR5	START	34	5	11	17	30	36								
	MINIMUM	15	5	8	12	18	22								
	END	27	11	17	24	37	43								
B02P03-SR5	START	34	26	36											
	MINIMUM	15	16	22											
	END	27	33	43											
B02P35-SR5	START	34	52	67											
	MINIMUM	15	30	38											
	END	27	18	26											
B02P43-SR5	START	34	95	116											
	MINIMUM	15	53	64											
	END	27	101	123											
B02P05-SR5	START	34													
	MINIMUM	15													
	END	27													
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B02P23-SR4	START	46				18	24	31	43	56					
	MINIMUM	20				13	17	20	27	33					
	END	36				28	34	40	53	66					
B02P03-SR4	START	46	14	24	34	54									
	MINIMUM	20	11	16	22	32									
	END	36	24	33	43	63									
B02P35-SR4	START	46	40	55											
	MINIMUM	20	25	32											
	END	36	9	17											
B02P43-SR4	START	46	83	104											
	MINIMUM	20	47	59											
	END	36	92	114											
B02P05-SR4	START	46	120	148											
	MINIMUM	20	67	82											
	END	36	130	157											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B02P23-SR3	START	67							22	34	47	60			
	MINIMUM	30							17	24	31	38			
	END	51							38	51	64	76			
B02P03-SR3	START	67				32	42	52	72						
	MINIMUM	30				23	28	33	44						
	END	51				49	58	68	88						
B02P35-SR3	START	67	19	33	47	76									
	MINIMUM	30	16	23	31	46									
	END	51	35	49	64	92									
B02P43-SR3	START	67	61	82											
	MINIMUM	30	38	49											
	END	51	77	99											
B02P05-SR3	START	67	98												
	MINIMUM	30	58												
	END	51	115												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B02P23-SR2	START	109											44	56	
	MINIMUM	44											36	43	
	END	68											85	97	
B02P03-SR2	START	109							30	50	70	90			
	MINIMUM	44							29	40	50	61			
	END	68							71	91	111	131			
B02P35-SR2	START	109				34	48	63	91	120					
	MINIMUM	44				31	39	46	61	77					
	END	68				75	90	104	132	161					
B02P43-SR2	START	109	19	41	62	105									
	MINIMUM	44	23	35	46	69									
	END	68	60	82	103	146									
B02P05-SR2	START	109	56	84	112										
	MINIMUM	44	43	58	72										
	END	68	98	125	153										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
B02P23-SR1	START	146												7	19
	MINIMUM	57												24	30
	END	82												71	83
B02P03-SR1	START	146								13	33	53	93	112	
	MINIMUM	57								27	37	48	69	79	
	END	82								77	97	117	156	176	
B02P35-SR1	START	146						26	54	83	112				
	MINIMUM	57						34	49	64	79				
	END	82						90	118	147	175				
B02P43-SR1	START	146			25	68	89	111							
	MINIMUM	57			33	56	67	78							
	END	82			89	132	153	174							
B02P05-SR1	START	146	20	47	75	130									
	MINIMUM	57	30	45	60	89									
	END	82	84	111	139	194									

CREDESCENCE A-SERIES SCOTCH YOKE ACTUATOR

PNEUMATIC SPRING RETURN SCOTCH YOKE ACTUATOR TORQUES
TORQUE DATA IN METRIC (Nm)



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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A03P03-SR5	START	72		8	19	42	53	64								
	MINIMUM	30		12	18	30	36	42								
	END	49		30	41	64	75	87								
A03P35-SR5	START	72	25	42	58											
	MINIMUM	30	21	30	38											
	END	49	48	64	80											
A03P04-SR5	START	72	50	70	90											
	MINIMUM	30	34	44	55											
	END	49	72	92	112											
A03P05-SR5	START	72	121													
	MINIMUM	30	71													
	END	49	144													
A03P06-SR5	START	72	208													
	MINIMUM	30	118													
	END	49	99													
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A03P03-SR4	START	98			16	27	38	61	84							
	MINIMUM	39			21	27	33	45	57							
	END	59			54	66	77	100	122							
A03P35-SR4	START	98	16	32	64	80	97									
	MINIMUM	39	21	29	46	55	63									
	END	59	54	70	103	119	135									
A03P04-SR4	START	98	24	44	64	105	145									
	MINIMUM	39	25	36	46	68	78	89								
	END	59	62	82	103	143	163	184								
A03P05-SR4	START	98	95	127	159	224	256	288								
	MINIMUM	39	63	80	96	130	147	164								
	END	59	134	166	198	262	295	327								
A03P06-SR4	START	98	183	229	276	369	416	463								
	MINIMUM	39	109	133	158	207	232	257								
	END	59	221	268	315	408	455	502								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A03P03-SR3	START	162							19	42	65	110	133			
	MINIMUM	62							34	46	58	82	94			
	END	85							97	119	142	187	210			
A03P35-SR3	START	162					32	65	97							
	MINIMUM	62					41	58	75							
	END	85					110	142	174							
A03P04-SR3	START	162				60	81									
	MINIMUM	62				56	66									
	END	85				138	158									
A03P05-SR3	START	162	63	95	159											
	MINIMUM	62	57	74	108											
	END	85	140	172	237											
A03P06-SR3	START	162	118													
	MINIMUM	62	86													
	END	85	196													
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A03P03-SR2	START	204											68	91		
	MINIMUM	77											67	79		
	END	103											169	191		
A03P35-SR2	START	204										88	120	185		
	MINIMUM	77										77	94	128		
	END	103										188	221	285		
A03P04-SR2	START	204					39	79	120							
	MINIMUM	77					51	73	94							
	END	103					139	180	220							
A03P05-SR2	START	204		53	118	150										
	MINIMUM	77		59	93	110										
	END	103		154	218	250										
A03P06-SR2	START	204	77	123												
	MINIMUM	77	71	96												
	END	103	177	224												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A03P03-SR1	START	251													44
	MINIMUM	95													61
	END	129													166
A03P35-SR1	START	251											73	138	170
	MINIMUM	95											76	110	127
	END	129											195	260	293
A03P04-SR1	START	251									72	113	153		
	MINIMUM	95									76	97	119		
	END	129									195	235	276		
A03P05-SR1	START	251				70	102	135	199						
	MINIMUM	95				75	92	109	143						
	END	129				193	225	257	321						
A03P06-SR1	START	251	29	76	122	216									
	MINIMUM	95	53	78	102	152									
	END	129	152	198	245	339									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A04P04-SR5	START	136			61	110	135	159							
	MINIMUM	59			44	70	83	96							
	END	102			95	144	169	194							
A04P05-SR5	START	136	102	142	182										
	MINIMUM	59	66	87	108										
	END	102	137	176	216										
A04P06-SR5	START	136	213												
	MINIMUM	59	125												
	END	102	247												
A04P07-SR5	START	136	360												
	MINIMUM	59	202												
	END	102	394												
A04P08-SR5	START	136	516												
	MINIMUM	59	285												
	END	102	550												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A04P04-SR4	START	222								122	172	221			
	MINIMUM	96								86	112	138			
	END	161								184	233	282			
A04P05-SR4	START	222			95	175	215								
	MINIMUM	96			72	114	135								
	END	161			157	236	276								
A04P06-SR4	START	222	127	185	243										
	MINIMUM	96	88	119	150										
	END	161	188	246	304										
A04P07-SR4	START	222	274												
	MINIMUM	96	166												
	END	161	335												
A04P08-SR4	START	222	430												
	MINIMUM	96	248												
	END	161	491												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A04P04-SR3	START	285									109	158	207		
	MINIMUM	166									42	68	94		
	END	197									197	246	295		
A04P05-SR3	START	285				152	192	271							
	MINIMUM	166				65	86	128							
	END	197				240	280	359							
A04P06-SR3	START	285	64	122	180	297									
	MINIMUM	166	19	49	80	141									
	END	197	152	210	268	385									
A04P07-SR3	START	285	211	294											
	MINIMUM	166	96	140											
	END	197	299	382											
A04P08-SR3	START	285	367												
	MINIMUM	166	178												
	END	197	455												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A04P04-SR2	START	396										96	195	244	
	MINIMUM	166										94	146	172	
	END	266										226	324	373	
A04P05-SR2	START	396							160	239	319				
	MINIMUM	166							128	170	212				
	END	266							290	369	448				
A04P06-SR2	START	396					244	302							
	MINIMUM	166					172	203							
	END	266					373	432							
A04P07-SR2	START	396	100	183	265	430									
	MINIMUM	166	96	140	183	271									
	END	266	229	312	395	560									
A04P08-SR2	START	396	256	364											
	MINIMUM	166	178	236											
	END	266	385	494											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A04P04-SR1	START	524											67	116	
	MINIMUM	218											94	120	
	END	347											244	293	
A04P05-SR1	START	524									191	270			
	MINIMUM	218									159	201			
	END	347									368	447			
A04P06-SR1	START	524						174	290	407					
	MINIMUM	218						151	212	273					
	END	347						351	467	584					
A04P07-SR1	START	524			137	302	385	468							
	MINIMUM	218			131	218	262	306							
	END	347			314	479	562	645							
A04P08-SR1	START	524	128	236	345	562									
	MINIMUM	218	126	184	241	356									
	END	347	305	413	522	739									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A05P05-SR5	START	329				141	188	235	329						
	MINIMUM	146				102	127	152	202						
	END	254				216	263	310	404						
A05P06-SR5	START	329	84	153	221										
	MINIMUM	146	72	109	145										
	END	254	159	228	297										
A05P07-SR5	START	329	258	356	453										
	MINIMUM	146	164	216	267										
	END	254	333	431	528										
A05P08-SR5	START	329	442												
	MINIMUM	146	261												
	END	254	517												
A05P09-SR5	START	329	652												
	MINIMUM	146	372												
	END	254	727												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A05P05-SR4	START	430							134	228	322				
	MINIMUM	189							109	158	208				
	END	327							238	332	426				
A05P06-SR4	START	430					259	328	397						
	MINIMUM	189					174	211	247						
	END	327					362	431	500						
A05P07-SR4	START	430	157	255	353										
	MINIMUM	189	121	172	224										
	END	327	260	358	456										
A05P08-SR4	START	430	342	470	599										
	MINIMUM	189	218	286	354										
	END	327	445	574	702										
A05P09-SR4	START	430	551												
	MINIMUM	189	329												
	END	327	654												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A05P05-SR3	START	536									216	310	404		
	MINIMUM	282									115	164	214		
	END	400									353	447	541		
A05P06-SR3	START	536					221	290	428	566					
	MINIMUM	282					118	154	227	299					
	END	400					358	427	565	702					
A05P07-SR3	START	536			246	442	540								
	MINIMUM	282			131	234	286								
	END	400			383	579	677								
A05P08-SR3	START	536	236	364	493										
	MINIMUM	282	125	193	261										
	END	400	372	501	629										
A05P09-SR3	START	536	445	608											
	MINIMUM	282	235	322											
	END	400	581	745											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A05P05-SR2	START	656										190	284	472	566
	MINIMUM	282										164	214	313	363
	END	473										373	467	655	749
A05P06-SR2	START	656							308	446	584				
	MINIMUM	282							227	299	372				
	END	473							491	629	767				
A05P07-SR2	START	656				322	420	518							
	MINIMUM	282				234	286	337							
	END	473				505	603	701							
A05P08-SR2	START	656			372	630									
	MINIMUM	282			261	396									
	END	473			556	813									
A05P09-SR2	START	656	325	488	651	979									
	MINIMUM	282	235	322	408	581									
	END	473	508	671	834	1,162									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A05P05-SR1	START	760										87	181	369	
	MINIMUM	327										119	169	268	
	END	549										297	391	579	
A05P06-SR1	START	760							204	342	480	618			
	MINIMUM	327							182	254	327	400			
	END	549							415	553	691	828			
A05P07-SR1	START	760				219	317	414	610	806					
	MINIMUM	327				189	241	292	396	499					
	END	549				429	527	625	821	1,016					
A05P08-SR1	START	760			269	526	655	784							
	MINIMUM	327			216	352	419	487							
	END	549			479	737	866	994							
A05P09-SR1	START	760	221	385	548	875									
	MINIMUM	327	190	277	363	536									
	END	549	432	595	758	1,086									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A06P05-SR5	START	602				307	534	648	761	988					
	MINIMUM	265				214	334	394	454	574					
	END	459				449	677	790	904	1131					
A06P06-SR5	START	602	297	447	596	896									
	MINIMUM	265	209	288	367	525									
	END	459	440	590	739	1039									
A06P07-SR5	START	602	544	734											
	MINIMUM	265	339	440											
	END	459	686	877											
A06P08-SR5	START	602	888												
	MINIMUM	265	521												
	END	459	1031												
A06P09-SR5	START	602	1529												
	MINIMUM	265	859												
	END	459	1671												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A06P05-SR4	START	832								757	985				
	MINIMUM	360								479	599				
	END	607								983	1210				
A06P06-SR4	START	832				666	815	965							
	MINIMUM	360				431	510	589							
	END	607				891	1041	1190							
A06P07-SR4	START	832		504	694	1076									
	MINIMUM	360		345	446	647									
	END	607		729	919	1302									
A06P08-SR4	START	832	657	906											
	MINIMUM	360	426	557											
	END	607	883	1131											
A06P09-SR4	START	832	1298	1653											
	MINIMUM	360	764	952											
	END	607	1523	1878											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A06P05-SR3	START	1008								355	582	809			
	MINIMUM	520								199	319	439			
	END	745								618	845	1072			
A06P06-SR3	START	1008				490	640	790	1089						
	MINIMUM	520				270	349	428	586						
	END	745				753	903	1053	1352						
A06P07-SR3	START	1008	137	328	519	901	1092								
	MINIMUM	520	84	185	285	487	588								
	END	745	400	591	782	1164	1355								
A06P08-SR3	START	1008	482	730	978	1475									
	MINIMUM	520	266	397	528	790									
	END	745	745	993	1241	1738									
A06P09-SR3	START	1008	1122	1477											
	MINIMUM	520	604	791											
	END	745	1385	1740											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A06P05-SR2	START	1199									618	845	1073		
	MINIMUM	520									439	558	678		
	END	883									934	1161	1388		
A06P06-SR2	START	1199						599	899	1198					
	MINIMUM	520						428	586	745					
	END	883						915	1214	1514					
A06P07-SR2	START	1199				710	901	1092							
	MINIMUM	520				487	588	688							
	END	883				1026	1217	1407							
A06P08-SR2	START	1199	291	540	787	1284									
	MINIMUM	520	266	397	528	790									
	END	883	607	855	1103	1600									
A06P09-SR2	START	1199	932	1287											
	MINIMUM	520	604	791											
	END	883	1247	1602											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A06P05-SR1	START	1455									362	589	816		
	MINIMUM	621									338	458	578		
	END	1029									788	1016	1243		
A06P06-SR1	START	1455						343	642	942	1242				
	MINIMUM	621						328	486	644	802				
	END	1029						769	1069	1368	1668				
A06P07-SR1	START	1455					645	836	1217						
	MINIMUM	621					487	588	789						
	END	1029					1071	1262	1644						
A06P08-SR1	START	1455	35	283	531	1028	1277								
	MINIMUM	621	165	297	427	690	821								
	END	1029	461	710	957	1455	1703								
A06P09-SR1	START	1455	675	1030	1385										
	MINIMUM	621	503	691	878										
	END	1029	1102	1457	1811										

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A07P08-SR5	START	1165					694	863	1201	1539				
	MINIMUM	507					474	563	741	920				
	END	864					995	1164	1502	1840				
A07P09-SR5	START	1165			559	990	1206	1421						
	MINIMUM	507			402	630	744	858						
	END	864			859	1291	1506	1722						
A07P10-SR5	START	1165	518	799	1079									
	MINIMUM	507	381	529	677									
	END	864	819	1099	1379									
A07P12-SR5	START	1165	1243	1645										
	MINIMUM	507	764	975										
	END	864	1544	1945										
A07P14-SR5	START	1165	1739	2223										
	MINIMUM	507	1025	1281										
	END	864	2040	2524										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A07P08-SR4	START	1354						674	1012	1350				
	MINIMUM	601						469	648	826				
	END	1050						978	1316	1654				
A07P09-SR4	START	1354				801	1017	1232						
	MINIMUM	601				536	650	764						
	END	1050				1105	1320	1536						
A07P10-SR4	START	1354		610	890	1451								
	MINIMUM	601		435	583	880								
	END	1050		914	1194	1755								
A07P12-SR4	START	1354	1054	1456	1856	2660								
	MINIMUM	601	670	882	1093	1517								
	END	1050	1358	1759	2160	2963								
A07P14-SR4	START	1354	1550											
	MINIMUM	601	932											
	END	1050	1854											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A07P08-SR3	START	1630								1074	1412			
	MINIMUM	719								708	886			
	END	1247								1457	1795			
A07P09-SR3	START	1630						956	1387	1818	2249			
	MINIMUM	719						646	873	1101	1328			
	END	1247						1339	1770	2201	2632			
A07P10-SR3	START	1630				1176	1456	1737						
	MINIMUM	719				761	909	1057						
	END	1247				1558	1839	2119						
A07P12-SR3	START	1630	778	1180	1580	2384								
	MINIMUM	719	552	764	975	1399								
	END	1247	1161	1562	1963	2766								
A07P14-SR3	START	1630	1274	1758										
	MINIMUM	719	814	1069										
	END	1247	1657	2141										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A07P08-SR2	START	1930								774	1112	1450	2126	
	MINIMUM	845								582	760	939	1296	
	END	1450								1254	1592	1930	2606	
A07P09-SR2	START	1930							1087	1518	1949	2379	3241	
	MINIMUM	845							747	975	1202	1430	1885	
	END	1450							1567	1998	2429	2860	3722	
A07P10-SR2	START	1930						1436	1997					
	MINIMUM	845						932	1228					
	END	1450						1917	2478					
A07P12-SR2	START	1930			1280	2083								
	MINIMUM	845			849	1273								
	END	1450			1760	2564								
A07P14-SR2	START	1930	974	1458	1941									
	MINIMUM	845	688	943	1198									
	END	1450	1454	1938	2421									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A07P08-SR1	START	2237										805	1143		
	MINIMUM	969										637	815		
	END	1638										1404	1742		
A07P09-SR1	START	2237										1211	1642		
	MINIMUM	969										851	1078		
	END	1638										1810	2240		
A07P10-SR1	START	2237					849	1129	1690						
	MINIMUM	969					660	808	1104						
	END	1638					1447	1728	2289						
A07P12-SR1	START	2237					1776	2177							
	MINIMUM	969					1149	1361							
	END	1638					2375	2776							
A07P14-SR1	START	2237		1151	1634										
	MINIMUM	969		819	1074										
	END	1638		1750	2233										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A08P09-SR5	START	1789						1158	1426	1962					
	MINIMUM	804						751	892	1175					
	END	1429						1518	1785	2321					
A08P10-SR5	START	1789			1004	1703	2052								
	MINIMUM	804			669	1038	1223								
	END	1429			1363	2063	2412								
A08P12-SR5	START	1789	1213	1713	2212	3213	3714								
	MINIMUM	804	780	1043	1307	1835	2099								
	END	1429	1572	2072	2571	3573	4073								
A08P14-SR5	START	1789	1833	2436	3038	4247	4850								
	MINIMUM	804	1107	1425	1743	2381	2699								
	END	1429	2192	2795	3398	4606	5210								
A08P16-SR5	START	1789	2993	3790	4585	6181	6978								
	MINIMUM	804	1719	2140	2559	3402	3822								
	END	1429	3352	4149	4945	6540	7337								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A08P09-SR4	START	1959						988	1256	1792					
	MINIMUM	874						682	823	1106					
	END	1536						1411	1679	2215					
A08P10-SR4	START	1959			834	1533	1882								
	MINIMUM	874			600	969	1154								
	END	1536			1257	1956	2305								
A08P12-SR4	START	1959	1043	1543	2042										
	MINIMUM	874	710	974	1238										
	END	1536	1465	1966	2465										
A08P14-SR4	START	1959	1662	2266											
	MINIMUM	874	1038	1356											
	END	1536	2085	2689											
A08P16-SR4	START	1959	2823												
	MINIMUM	874	1650												
	END	1536	3246												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A08P09-SR3	START	2533										1753	2289	2825	
	MINIMUM	1129										1133	1416	1699	
	END	1984										2303	2839	3374	
A08P10-SR3	START	2533						1657	2355						
	MINIMUM	1129						1082	1451						
	END	1984						2207	2905						
A08P12-SR3	START	2533			1467	2469	2969	3469	4470						
	MINIMUM	1129			982	1511	1775	2039	2567						
	END	1984			2017	3018	3519	4019	5019						
A08P14-SR3	START	2533	1088	1691	2294	3502									
	MINIMUM	1129	782	1100	1418	2056									
	END	1984	1638	2241	2843	4052									
A08P16-SR3	START	2533	2248	3045	3841	5436									
	MINIMUM	1129	1394	1815	2235	3077									
	END	1984	2798	3595	4390	5986									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A08P09-SR2	START	2991									1831	2367		
	MINIMUM	1324									1221	1504		
	END	2304									2518	3054		
A08P10-SR2	START	2991							1898	2596				
	MINIMUM	1324							1256	1625				
	END	2304							2584	3283				
A08P12-SR2	START	2991				2011	2512	3012	4012					
	MINIMUM	1324				1316	1580	1844	2372					
	END	2304				2698	3198	3698	4698					
A08P14-SR2	START	2991		1234	1836	3045								
	MINIMUM	1324		906	1224	1862								
	END	2304		1920	2523	3731								
A08P16-SR2	START	2991		1791	2588	3383								
	MINIMUM	1324		1200	1620	2040								
	END	2304		2477	3274	4069								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A08P09-SR1	START	3335										2023	3094	
	MINIMUM	1447										1380	1946	
	END	2455										2903	3975	
A08P10-SR1	START	3335								2252	2950			
	MINIMUM	1447								1501	1870			
	END	2455								3132	3831			
A08P12-SR1	START	3335				2167	2667	3668						
	MINIMUM	1447				1457	1721	2249						
	END	2455				3048	3548	4548						
A08P14-SR1	START	3335			1492	2700	3304	3907						
	MINIMUM	1447			1100	1738	2056	2375						
	END	2455			2372	3581	4184	4788						
A08P16-SR1	START	3335		1446	2243	3039								
	MINIMUM	1447		1076	1497	1917								
	END	2455		2327	3124	3919								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A09P10-SR5	START	3236							1505	2295	3085			
	MINIMUM	1410							1093	1510	1927			
	END	2403							2339	3129	3919			
A09P12-SR5	START	3236			1367	2520	3095							
	MINIMUM	1410			1020	1628	1932							
	END	2403			2201	3353	3929							
A09P14-SR5	START	3236		1497	2286	3073								
	MINIMUM	1410		1088	1505	1920								
	END	2403		2331	3120	3907								
A09P16-SR5	START	3236		2974	4009									
	MINIMUM	1410		1868	2414									
	END	2403		3808	4843									
A09P20-SR5	START	3236		6518										
	MINIMUM	1410		3739										
	END	2403		7352										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)											
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM											
A09P10-SR4	START	4209							1322	2112	2903	3693		
	MINIMUM	1848							1071	1488	1905	2322		
	END	3184							2347	3138	3928	4718		
A09P12-SR4	START	4209				2122	2698	3849						
	MINIMUM	1848				1493	1797	2405						
	END	3184				3148	3723	4874						
A09P14-SR4	START	4209				3680	4469							
	MINIMUM	1848				2315	2732							
	END	3184				4705	5494							
A09P16-SR4	START	4209		2001	3036	4069								
	MINIMUM	1848		1429	1976	2521								
	END	3184		3026	4061	5094								
A09P20-SR4	START	4209		5545	7171									
	MINIMUM	1848		3300	4158									
	END	3184		6571	8196									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A09P10-SR3	START	5258											2644	4225	5015
	MINIMUM	2308											1862	2696	3114
	END	3975											3927	5508	6298
A09P12-SR3	START	5258							2801	3952	5103				
	MINIMUM	2308							1945	2552	3160				
	END	3975							4083	5235	6386				
A09P14-SR3	START	5258				2631	3420	4209	5787						
	MINIMUM	2308				1856	2272	2688	3521						
	END	3975				3914	4703	5492	7070						
A09P16-SR3	START	5258			3020	5093									
	MINIMUM	2308			2061	3155									
	END	3975			4303	6376									
A09P20-SR3	START	5258	4497	6123											
	MINIMUM	2308	2840	3698											
	END	3975	5780	7405											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A09P10-SR2	START	6336											1566	3147	3937
	MINIMUM	2774											1397	2231	2648
	END	4758											3144	4724	5515
A09P12-SR2	START	6336									2874	4025	5176		
	MINIMUM	2774									2087	2695	3302		
	END	4758									4452	5603	6754		
A09P14-SR2	START	6336				2342	3131	4709	6287						
	MINIMUM	2774				1807	2223	3056	3889						
	END	4758				3920	4709	6287	7865						
A09P16-SR2	START	6336			1942	4015	5050	6085							
	MINIMUM	2774			1596	2689	3236	3782							
	END	4758			3520	5592	6628	7663							
A09P20-SR2	START	6336	3419	5045	6667										
	MINIMUM	2774	2375	3233	4089										
	END	4758	4997	6622	8245										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A09P10-SR1	START	7653												1830	2620
	MINIMUM	3300												1705	2122
	END	5547												3936	4726
A09P12-SR1	START	7653												3859	6162
	MINIMUM	3300												2776	3991
	END	5547												5966	8268
A09P14-SR1	START	7653							3392	4970	6548				
	MINIMUM	3300							2529	3362	4195				
	END	5547							5498	7076	8654				
A09P16-SR1	START	7653					3733	4768	6838						
	MINIMUM	3300					2709	3256	4348						
	END	5547					5839	6874	8944						
A09P20-SR1	START	7653	2102	3728	5350	8605									
	MINIMUM	3300	1848	2707	3563	5281									
	END	5547	4208	5834	7456	10711									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A10P12-SR5	START	7548							2277	3681	5084	6488			
	MINIMUM	3213							1972	2713	3454	4195			
	END	5305							4521	5924	7328	8732			
A10P14-SR5	START	7548						4002	5927	7852					
	MINIMUM	3213						2883	3899	4915					
	END	5305						6246	8171	10096					
A10P16-SR5	START	7548				4070	5232	6394							
	MINIMUM	3213				2919	3532	4145							
	END	5305				6314	7476	8638							
A10P20-SR5	START	7548		5372	7214										
	MINIMUM	3213		3606	4578										
	END	5305		7615	9457										
A10P24-SR5	START	7548	8562	11247											
	MINIMUM	3213	5289	6707											
	END	5305	10806	13491											
A10P28-SR5	START	7548	15916	19827											
	MINIMUM	3213	8171	8171											
	END	5305	18159	22070											

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A10P12-SR4	START	9700											4337	7144	8548
	MINIMUM	4100											3308	4790	5531
	END	6701											7336	10143	11547
A10P14-SR4	START	9700										7626	9551		
	MINIMUM	4100										5044	6060		
	END	6701										10625	12550		
A10P16-SR4	START	9700						4243	6567	8890	11214				
	MINIMUM	4100						3258	4485	5711	6938				
	END	6701						7242	9566	11889	14213				
A10P20-SR4	START	9700			5063	8758	10604	12450							
	MINIMUM	4100			3691	5642	6616	7590							
	END	6701			8062	11757	13603	15449							
A10P24-SR4	START	9700	6411	9096	11775										
	MINIMUM	4100	4403	5820	7234										
	END	6701	9410	12095	14775										
A10P28-SR4	START	9700	13765												
	MINIMUM	4100	7284												
	END	6701	16764												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A10P12-SR3	START	11663												5180	6584
	MINIMUM	4937												3953	4693
	END	8086												8758	10162
A10P14-SR3	START	11663									5663	7588	11438		
	MINIMUM	4937									4207	5223	7255		
	END	8086									9240	11165	15016		
A10P16-SR3	START	11663							4603	6927	9250	11574			
	MINIMUM	4937							3648	4874	6101	7327			
	END	8086							8181	10504	12828	15152			
A10P20-SR3	START	11663			3099	6794	8640	10486							
	MINIMUM	4937			2854	4804	5778	6753							
	END	8086			6677	10372	12218	14064							
A10P24-SR3	START	11663	4447	7132	9812	15188									
	MINIMUM	4937	3566	4983	6397	9234									
	END	8086	8025	10710	13390	18765									
A10P28-SR3	START	11663	11801	15712											
	MINIMUM	4937	6447	6447											
	END	8086	15379	19289											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A10P12-SR2	START	13255													
	MINIMUM	5691													
	END	9509													
A10P14-SR2	START	13255										5996	9846	11771	
	MINIMUM	5691										4469	6501	7517	
	END	9509										9741	13592	15517	
A10P16-SR2	START	13255									7659	9983	14630		
	MINIMUM	5691									5347	6573	9026		
	END	9509									11404	13728	18376		
A10P20-SR2	START	13255					7049	8894	12586						
	MINIMUM	5691					5025	5999	7947						
	END	9509					10794	12640	16331						
A10P24-SR2	START	13255			8220	13596									
	MINIMUM	5691			5643	8480									
	END	9509			11966	17341									
A10P28-SR2	START	13255	10209	14120											
	MINIMUM	5691	5693	5693											
	END	9509	13955	17865											

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A10P12-SR1	START	17137														
	MINIMUM	7009														
	END	10901														
A10P14-SR1	START	17137													5964	7889
	MINIMUM	7009													5183	6199
	END	10901													12200	14125
A10P16-SR1	START	17137												6101	10748	13072
	MINIMUM	7009												5255	7708	8934
	END	10901												12337	16984	19308
A10P20-SR1	START	17137						5012	8704	12396	16087					
	MINIMUM	7009						4680	6629	8577	10525					
	END	10901						11248	14940	18631	22323					
A10P24-SR1	START	17137			4338	9714	12399	15084								
	MINIMUM	7009			4325	7162	8579	9996								
	END	10901			10574	15950	18635	21320								
A10P28-SR1	START	17137	6327	10238	14141	21970										
	MINIMUM	7009	4375	4375	4375	4375										
	END	10901	12563	16474	20376	28206										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A11P16-SR5	START	15387							5111	8039	10967					
	MINIMUM	6010							4808	6354	7899					
	END	8654							11844	14772	17701					
A11P20-SR5	START	15387			3284	7958	10293	12628								
	MINIMUM	6010			3844	6311	7543	8775								
	END	8654			10018	14692	17026	19361								
A11P24-SR5	START	15387	5030	8432	11828	18641										
	MINIMUM	6010	4765	6561	8353	11949										
	END	8654	11763	15166	18561	25374										
A11P28-SR5	START	15387			14389	19352										
	MINIMUM	6010			9705	12324										
	END	8654			21122	26085										
A11P32-SR5	START	15387														
	MINIMUM	6010														
	END	8654														
A11P36-SR5	START	15387														
	MINIMUM	6010														
	END	8654														
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A11P12-SR4	START	20254												9029	14885	
	MINIMUM	8061												7394	10485	
	END	11989												17294	23151	
A11P14-SR4	START	20254						7760	12430	17099	21768					
	MINIMUM	8061						6725	9189	11653	14118					
	END	11989						16026	20695	25364	30033					
A11P16-SR4	START	20254					17176	20579	27385							
	MINIMUM	8061					11694	13490	17082							
	END	11989					25442	28845	35650							
A11P20-SR4	START	20254		14484	19437	29372										
	MINIMUM	8061		10274	12887	18131										
	END	11989		22750	27702	37638										
A11P24-SR4	START	20254	18711	25205												
	MINIMUM	8061	12504	15932												
	END	11989	26976	33470												
A11P28-SR4	START	20254	29125	37355												
	MINIMUM	8061	18001	22344												
	END	11989	37391	45620												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A11P12-SR3	START	26326												8813	11742
	MINIMUM	10406												8140	9686
	END	15297												19843	22771
A11P14-SR3	START	26326								11027	15696	20365			
	MINIMUM	10406								9308	11773	14237			
	END	15297								22056	26725	31394			
A11P16-SR3	START	26326				11105	14507	21313	28118						
	MINIMUM	10406				9349	11145	14737	18329						
	END	15297				22134	25537	32342	39148						
A11P20-SR3	START	26326			13365	23300	28263								
	MINIMUM	10406			10542	15786	18405								
	END	15297			24394	34330	39292								
A11P24-SR3	START	26326	12639	19133	25614										
	MINIMUM	10406	10159	13587	17007										
	END	15297	23668	30162	36643										
A11P28-SR3	START	26326	23053	31283											
	MINIMUM	10406	15656	19999											
	END	15297	34083	42312											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A11P12-SR2	START	29888													8180
	MINIMUM	12139													7952
	END	18668													1423
A11P14-SR2	START	29888									12134	16803	26141		
	MINIMUM	12139									10039	12503	17432		
	END	18668									23354	28023	37361		
A11P16-SR2	START	29888					10945	17751	24557	31362					
	MINIMUM	12139					9412	13004	16596	20187					
	END	18668					22165	28971	35776	42582					
A11P20-SR2	START	29888			9803	19739	24701	29664							
	MINIMUM	12139			8809	14053	16672	19291							
	END	18668			21023	30958	35921	40884							
A11P24-SR2	START	29888	9077	15571	22052	35054									
	MINIMUM	12139	8426	11853	15274	22136									
	END	18668	20297	26791	33271	46273									
A11P28-SR2	START	29888	19491	27721											
	MINIMUM	12139	13922	18266											
	END	18668	30711	38941											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A11P12-SR1	START	35754													
	MINIMUM	14436													
	END	21990													
A11P14-SR1	START	35754										10937	20275	24944	
	MINIMUM	14436										10206	15135	17599	
	END	21990										24701	34039	38708	
A11P16-SR1	START	35754								18690	25496	32302			
	MINIMUM	14436								14299	17890	21482			
	END	21990								32454	39260	46065			
A11P20-SR1	START	35754					18835	23798	33723						
	MINIMUM	14436					14375	16994	22232						
	END	21990					32599	37562	47487						
A11P24-SR1	START	35754			16186	29187	35682								
	MINIMUM	14436			12977	19839	23266								
	END	21990			29950	42951	49446								
A11P28-SR1	START	35754	13625	21855	30068										
	MINIMUM	14436	11625	15969	20303										
	END	21990	27389	35619	43832										

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A12P20-SR4	START	35422										15385	21030	32320	
	MINIMUM	14261										12553	15533	21491	
	END	21623										29183	34828	46118	
A12P24-SR4	START	35422							14015	22254	30494				
	MINIMUM	14261							11830	16179	20527				
	END	21623							27813	36053	44292				
A12P28-SR4	START	35422				24717	30731								
	MINIMUM	14261				17478	20652								
	END	21623				38515	44529								
A12P32-SR4	START	35422	11819	19693	27550	43314									
	MINIMUM	14261	10672	14827	18974	27293									
	END	21623	25618	33491	41348	57112									
A12P36-SR4	START	35422	24465	34447											
	MINIMUM	14261	17346	22614											
	END	21623	38264	48245											
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A12P20-SR3	START	41589										14862	26153	31798	
	MINIMUM	16618										13175	19134	22113	
	END	24885										31567	42857	48502	
A12P24-SR3	START	41589							16087	24326	32566	40805			
	MINIMUM	16618							13822	18170	22519	26867			
	END	24885							32791	41030	49270	57509			
A12P28-SR3	START	41589				18549	24563	30577	42605						
	MINIMUM	16618				15121	18295	21469	27817						
	END	24885				35253	41267	47281	59309						
A12P32-SR3	START	41589			21383	37146	45020								
	MINIMUM	16618			16617	24936	29092								
	END	24885			38087	53850	61724								
A12P36-SR3	START	41589	18298	28279	38239										
	MINIMUM	16618	14989	20256	25513										
	END	24885	35002	44983	54944										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A12P20-SR2	START	51015													
	MINIMUM	20508													
	END	31017													
A12P24-SR2	START	51015									23139	31379	47858		
	MINIMUM	20508									18629	22978	31675		
	END	31017									43138	51377	67856		
A12P28-SR2	START	51015						21151	33178	45206	57234				
	MINIMUM	20508						17580	23927	30275	36623				
	END	31017						41149	53177	65204	77232				
A12P32-SR2	START	51015				27720	35593	43467							
	MINIMUM	20508				21047	25202	29358							
	END	31017				47718	55592	63465							
A12P36-SR2	START	51015	8872	18853	28813	48796									
	MINIMUM	20508	11099	16367	21624	32170									
	END	31017	28870	38851	48812	68795									
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A12P20-SR1	START	57111											10631	16276	
	MINIMUM	22691											13062	16041	
	END	33654											34088	39733	
A12P24-SR1	START	57111										25284	41762		
	MINIMUM	22691										20795	29492		
	END	33654										48740	65219		
A12P28-SR1	START	57111						27083	39111	51138					
	MINIMUM	22691						21744	28092	34440					
	END	33654						50540	62568	74595					
A12P32-SR1	START	57111				29498	37372	53119							
	MINIMUM	22691				23019	27175	35486							
	END	33654				52955	60829	76576							
A12P36-SR1	START	57111			22718	42701	52682								
	MINIMUM	22691			19441	29987	35255								
	END	33654			46175	66158	76139								

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A13P20-SR5	START	41289					13085	18029	27915	37801					
	MINIMUM	15051					13647	16256	21474	26691					
	END	18913					35461	40404	50291	60177					
A13P24-SR5	START	41289			16514	30983	38210	45438							
	MINIMUM	15051			15456	23093	26908	30722							
	END	18913			38889	53359	60586	67814							
A13P28-SR5	START	41289	15530	24999	34449										
	MINIMUM	15051	14937	19935	24923										
	END	18913	37906	47375	56825										
A13P32-SR5	START	41289	30779	42790											
	MINIMUM	15051	22985	29325											
	END	18913	53155	65166											
A13P36-SR5	START	41289	47823												
	MINIMUM	15051	31981												
	END	18913	70199												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A13P20-SR3	START	69337									19640	29526			
	MINIMUM	26215									20745	25963			
	END	35523									53454	63340			
A13P24-SR3	START	69337					10163	17390	31845	46299	60754				
	MINIMUM	26215					15743	19558	27186	34815	42444				
	END	35523					43977	51204	65658	80113	94567				
A13P28-SR3	START	69337				25362	34831	44301							
	MINIMUM	26215				23765	28763	33761							
	END	35523				59175	68645	78115							
A13P32-SR3	START	69337			26729	50777									
	MINIMUM	26215			24487	37179									
	END	35523			60543	84591									
A13P36-SR3	START	69337	19775	34627	49448										
	MINIMUM	26215	20816	28655	36477										
	END	35523	53589	68441	83262										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A13P20-SR2	START	64164										34699	54471		
	MINIMUM	27701										24477	34912		
	END	46640										52223	71996		
A13P24-SR2	START	64164							37017	51471	65926				
	MINIMUM	27701							25700	33329	40958				
	END	46640							54542	68996	83451				
A13P28-SR2	START	64164					40004	49473	68413						
	MINIMUM	27701					27276	32274	42270						
	END	46640					57528	66998	85938						
A13P32-SR2	START	64164			31902	55950	67961								
	MINIMUM	27701			23000	35692	42032								
	END	46640			49426	73474	85486								
A13P36-SR2	START	64164	24948	39799	54620										
	MINIMUM	27701	19330	27169	34991										
	END	46640	42472	57324	72145										
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)												
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0	
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM												
A13P20-SR1	START	75533										23330	43103	52989	
	MINIMUM	32582										19595	30031	35249	
	END	54796										44067	63839	73725	
A13P24-SR1	START	75533									40103	54557	69012		
	MINIMUM	32582									28448	36076	43705		
	END	54796									60840	75294	89748		
A13P28-SR1	START	75533							57044	75984					
	MINIMUM	32582							37389	47385					
	END	54796							77781	96721					
A13P32-SR1	START	75533			20533	44581	56592	68604							
	MINIMUM	32582			18119	30811	37150	43490							
	END	54796			41270	65318	77329	89340							
A13P36-SR1	START	75533		28431	43252	72987									
	MINIMUM	32582		22287	30110	45803									
	END	54796		49168	63988	93723									

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A14P28-SR5	START	53382					38234	46563	63220							
	MINIMUM	21951					33483	38522	48601							
	END	34422					57194	65523	82180							
A14P32-SR5	START	53382			34029	55910	66839									
	MINIMUM	21951			30939	44178	50791									
	END	34422			52989	74870	85800									
A14P34-SR5	START	53382		43753	57601											
	MINIMUM	21951		36823	45201											
	END	34422		62713	76561											
A14P36-SR5	START	53382	49641	66811												
	MINIMUM	21951	40385	50774												
	END	34422	68601	85771												
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A14P28-SR3	START	122257											44317	77632	94289	
	MINIMUM	48565											52224	72382	82461	
	END	72001											94573	127888	144546	
A14P32-SR3	START	122257									52610	74469	96327			
	MINIMUM	48565									57242	70468	83694			
	END	72001									102867	124725	146584			
A14P34-SR3	START	122257						44260	72013	99766	127519					
	MINIMUM	48565						52190	68983	85775	102567					
	END	72001						94517	122270	150023	177775					
A14P36-SR3	START	122257			49447	66618	83788	118129								
	MINIMUM	48565			55329	65718	76107	96886								
	END	72001			99704	116874	134044	168385								
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A14P28-SR2	START	166105														
	MINIMUM	66786														
	END	101040														
A14P32-SR2	START	166105												96196	118055	
	MINIMUM	66786												91924	105150	
	END	101040												161262	183120	
A14P34-SR2	START	166105										83671	111424	166930		
	MINIMUM	66786										84346	101138	134723		
	END	101040										148737	176489	231995		
A14P36-SR2	START	166105							74281	108622	142963					
	MINIMUM	66786							78664	99443	120221					
	END	101040							139346	173687	208028					
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A14P28-SR1	START	196062														
	MINIMUM	77642														
	END	114507														
A14P32-SR1	START	196062												66239	88098	
	MINIMUM	77642												81068	94294	
	END	114507												147795	169653	
A14P34-SR1	START	196062									53714	81467	136973	164726		
	MINIMUM	77642									73490	90282	123867	140660		
	END	114507									135270	163023	218529	246281		
A14P36-SR1	START	196062							44324	78665	113006	147347	216028	250369		
	MINIMUM	77642							67808	88587	109365	130144	171701	192480		
	END	114507							125880	160220	194561	228902	297584	331925		
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A15P40-SR5	START	124090			71286	120194	144622	169051								
	MINIMUM	47697			55418	81230	94123	107016								
	END	66698			128677	177585	202014	226442								
A15P44-SR5	START	124090		83359	112932	172265										
	MINIMUM	47697		61790	77398	108713										
	END	66698		140750	170323	229657										
A15P48-SR5	START	124090	87942	123280	158545											
	MINIMUM	47697	64208	82859	101471											
	END	66698	145333	180671	215936											
A15P52-SR5	START	124090	125135	166673												
	MINIMUM	47697	83838	105761												
	END	66698	182527	224064												

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ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A15P40-SR4	START	249114								92883	141740	190596	239453			
	MINIMUM	95120								85379	111164	136950	162735			
	END	131365								210632	259488	308345	357202			
A15P44-SR4	START	249114							106512	165783	225054					
	MINIMUM	95120							92572	123854	155135					
	END	131365							224261	283532	342803					
A15P48-SR4	START	249114				104271	139610	174949	245626							
	MINIMUM	95120				91389	110040	128691	165993							
	END	131365				222020	257359	292697	363374							
A15P52-SR4	START	249114				83099	166261	207799	249336	332411						
	MINIMUM	95120				80215	124106	146029	167951	211796						
	END	131365				200848	284010	325547	367085	450160						
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A15P40-SR3	START	308713										130998	179854	277568		
	MINIMUM	117383										114687	140472	192043		
	END	160819										278892	327748	425462		
A15P44-SR3	START	308713								106184	165455	224726	283997			
	MINIMUM	117383								101591	132872	164154	195436			
	END	160819								254078	313349	372620	431891			
A15P48-SR3	START	308713							115350	186027	256704					
	MINIMUM	117383							106428	143730	181032					
	END	160819							263244	333921	404598					
A15P52-SR3	START	308713				106662	148200	189737	272812							
	MINIMUM	117383				101843	123765	145688	189533							
	END	160819				254556	296094	337631	420706							
ACTUATOR MODEL NO.	SPRING TORQUE START/MINIMUM/END (NM)		OPERATING AIR PRESSURE (BAR)													
			3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	13.0		
			PNEUMATIC TORQUE OUTPUT START/MINIMUM/END IN NM													
A15P40-SR2	START	373204												115364	213077	261934
	MINIMUM	139297												118558	170129	195915
	END	198064												290503	388217	437074
A15P44-SR2	START	373204										100964	160235	219506	338048	
	MINIMUM	139297										110959	142241	173522	236086	
	END	198064										276104	335375	394646	513188	
A15P48-SR2	START	373204									121536	192213	262890	333567		
	MINIMUM	139297									121816	159118	196420	233721		
	END	198064									296676	367353	438030	508707		
A15P52-SR2	START	373204							83709	125247	208322	291397				
	MINIMUM	139297							101852	123774	167619	211465				
	END	198064							258849	300387	383462	466537				