

## CREDESCENCE B-SERIES SCOTCH YOKE ACTUATOR

PNEUMATIC DOUBLE ACTING SCOTCH YOKE ACTUATOR TORQUES

TORQUE DATA IN IMPERIAL (lb-in)



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ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
B01P15	START/END	⊙	88	110	132	154	176	220	264	330	385	440
	MINIMUM	⊙	46	58	70	81	93	116	139	174	203	232
	START/END	○	110	138	166	193	221	276	331	414	483	552
	MINIMUM	○	58	73	87	102	117	146	175	218	255	291
B01P02	START/END	⊙	150	188	225	263	300	375	450	563	657	
	MINIMUM	⊙	79	99	119	139	158	198	238	297	347	
	START/END	○	172	216	259	302	345	431	517	647	754	
	MINIMUM	○	91	114	137	159	182	228	273	341	398	
B01P23	START/END	⊙	226	282	339	395	452	565	678			
	MINIMUM	⊙	119	149	179	209	239	298	358			
	START/END	○	248	310	372	435	497	621	745			
	MINIMUM	○	131	164	197	229	262	328	393			
B01P03	START/END	⊙	366	457	549	640	731					
	MINIMUM	⊙	193	241	289	338	386					
	START/END	○	388	485	582	679	776					
	MINIMUM	○	205	256	307	358	410					
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
B02P23	START/END	⊙	269	336	403	470	537	672	806	1008	1175	1343
	MINIMUM	⊙	142	177	213	248	284	355	425	532	620	709
	START/END	○	310	388	466	543	621	776	931	1164	1358	1552
	MINIMUM	○	164	205	246	287	328	410	491	614	717	819
B02P03	START/END	⊙	443	554	665	776	887	1108	1330	1662	1939	
	MINIMUM	⊙	234	292	351	409	468	585	702	877	1024	
	START/END	○	485	606	728	849	970	1213	1455	1819	2122	
	MINIMUM	○	256	320	384	448	512	640	768	960	1120	
B02P35	START/END	⊙	657	821	985	1149	1313	1642	1970			
	MINIMUM	⊙	347	433	520	607	693	866	1040			
	START/END	○	698	873	1048	1222	1397	1746	2095			
	MINIMUM	○	369	461	553	645	737	922	1106			
B02P43	START/END	⊙	1002	1252	1502	1753	2003					
	MINIMUM	⊙	529	661	793	925	1057					
	START/END	○	1043	1304	1565	1826	2087					
	MINIMUM	○	551	688	826	964	1101					
B02P05	START/END	⊙	1306	1632	1958							
	MINIMUM	⊙	689	861	1034							
	START/END	○	1347	1684	2021							
	MINIMUM	○	711	889	1067							

## CREDESCENCE A-SERIES SCOTCH YOKE ACTUATOR

PNEUMATIC DOUBLE ACTING SCOTCH YOKE ACTUATOR TORQUES  
TORQUE DATA IN IMPERIAL (lb-in)



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		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A03P03	START/END	⊙	554	692	830	969	1107	1384	1661	2076	2422	2768
	MINIMUM	⊙	292	365	438	511	584	730	877	1096	1278	1461
	START/END	○	574	718	861	1005	1149	1436	1723	2154	2513	2872
	MINIMUM	○	303	379	455	530	606	758	909	1137	1326	1516
A03P35	START/END	⊙	791	989	1186	1384	1582	1977	2373	2966	3460	
	MINIMUM	⊙	417	522	626	731	835	1044	1252	1565	1826	
	START/END	○	812	1015	1217	1420	1623	2029	2435	3044	3551	
	MINIMUM	○	428	535	643	750	857	1071	1285	1606	1874	
A03P04	START/END	⊙	988	1234	1481	1728	1975	2469	2963			
	MINIMUM	⊙	521	651	782	912	1042	1303	1564			
	START/END	○	1008	1260	1512	1764	2016	2521	3025			
	MINIMUM	○	532	665	798	931	1064	1330	1596			
A03P05	START/END	⊙	1570	1962	2354	2747	3139					
	MINIMUM	⊙	828	1035	1243	1450	1657					
	START/END	○	1590	1988	2385	2783	3181					
	MINIMUM	○	839	1049	1259	1469	1679					
A03P06	START/END	⊙	2281	2851	3421							
	MINIMUM	⊙	1204	1505	1806							
	START/END	○	2302	2877	3452							
	MINIMUM	○	1215	1518	1822							
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A04P04	START/END	⊙	1201	1501	1802	2102	2402	3003	3603	4504	5255	6005
	MINIMUM	⊙	634	792	951	1109	1268	1585	1902	2377	2773	3169
	START/END	○	1268	1585	1902	2219	2536	3170	3805	4756	5548	6341
	MINIMUM	○	669	837	1004	1171	1339	1673	2008	2510	2928	3347
A04P05	START/END	⊙	1938	2423	2907	3392	3877	4846	5815	7269	8480	
	MINIMUM	⊙	1023	1279	1534	1790	2046	2557	3069	3836	4476	
	START/END	○	2005	2507	3008	3509	4011	5014	6016	7520	8774	
	MINIMUM	○	1058	1323	1588	1852	2117	2646	3175	3969	4631	
A04P06	START/END	⊙	2839	3549	4259	4969	5679	7098	8518			
	MINIMUM	⊙	1499	1873	2248	2622	2997	3746	4496			
	START/END	○	2906	3633	4360	5086	5813	7266	8719			
	MINIMUM	○	1534	1917	2301	2684	3068	3835	4602			
A04P07	START/END	⊙	4034	5042	6051	7059	8067					
	MINIMUM	⊙	2129	2661	3193	3726	4258					
	START/END	○	4101	5126	6151	7176	8202					
	MINIMUM	○	2164	2705	3246	3788	4329					
A04P08	START/END	⊙	5302	6628	7953	9279						
	MINIMUM	⊙	2798	3498	4197	4897						
	START/END	○	5369	6711	8054	9396						
	MINIMUM	○	2834	3542	4251	4959						

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		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A05P05	START/END	⊙	2295	2869	3443	4017	4591	5738	6886	8608	10042	11477
	MINIMUM	⊙	1211	1514	1817	2120	2423	3029	3634	4543	5300	6057
	START/END	○	2375	2969	3562	4156	4750	5937	7124	8906	10390	11874
	MINIMUM	○	1253	1567	1880	2193	2507	3133	3760	4700	5484	6267
A05P06	START/END	⊙	3362	4203	5044	5884	6725	8406	10087	12609		
	MINIMUM	⊙	1775	2218	2662	3106	3549	4437	5324	6655		
	START/END	○	3442	4302	5163	6023	6884	8605	10326	12907		
	MINIMUM	○	1817	2271	2725	3179	3633	4541	5450	6812		
A05P07	START/END	⊙	4777	5971	7165	8359	9554	11942				
	MINIMUM	⊙	2521	3151	3782	4412	5042	6303				
	START/END	○	4856	6070	7284	8498	9712	12141				
	MINIMUM	○	2563	3204	3845	4485	5126	6408				
A05P08	START/END	⊙	6279	7848	9418	10988	12558					
	MINIMUM	⊙	3314	4142	4971	5799	6628					
	START/END	○	6358	7948	9537	11127	12716					
	MINIMUM	○	3356	4195	5034	5873	6711					
A05P09	START/END	⊙	7981	9976	11972							
	MINIMUM	⊙	4212	5265	6318							
	START/END	○	8061	10076	12091							
	MINIMUM	○	4254	5318	6381							
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A06P07	START/END	⊙	5544	6930	8316	9702	11088	13860	16632	20790	24255	
	MINIMUM	⊙	2926	3658	4389	5121	5852	7315	8778	10973	12801	
	START/END	○	5690	7113	8536	9958	11381	14226	17071	21339	24895	
	MINIMUM	○	3003	3754	4505	5256	6006	7508	9010	11262	13139	
A06P08	START/END	⊙	7313	9141	10970	12798	14626	18283	21939			
	MINIMUM	⊙	3860	4825	5790	6754	7719	9649	11579			
	START/END	○	7459	9324	11189	13054	14919	18648	22378			
	MINIMUM	○	3937	4921	5905	6890	7874	9842	11811			
A06P09	START/END	⊙	9318	11648	13977	16307	18636	23295				
	MINIMUM	⊙	4918	6147	7377	8606	9836	12295				
	START/END	○	9464	11830	14196	16562	18928	23661				
	MINIMUM	○	4995	6244	7493	8741	9990	12488				
A06P10	START/END	⊙	12123	15153	18184	21214	24245					
	MINIMUM	⊙	6398	7997	9597	11196	12796					
	START/END	○	12269	15336	18403	21470	24538					
	MINIMUM	○	6475	8094	9713	11332	12950					
A06P12	START/END	⊙	17332	21665	25998							
	MINIMUM	⊙	9148	11435	13721							
	START/END	○	17479	21848	26218							
	MINIMUM	○	9225	11531	13837							

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		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A07P08	START/END	⊙	8250	10312	12375	14437	16500	20625	24749	30937	36093	
	MINIMUM	⊙	4354	5443	6531	7620	8708	10885	13062	16328	19049	
	START/END	○	8415	10519	12623	14727	16831	21038	25246	31558	36817	
	MINIMUM	○	4441	5552	6662	7773	8883	11104	13324	16655	19431	
A07P09	START/END	⊙	10520	13149	15779	18409	21039	26299	31559	39448		
	MINIMUM	⊙	5552	6940	8328	9716	11104	13880	16656	20820		
	START/END	○	10685	13356	16028	18699	21370	26713	32055	40069		
	MINIMUM	○	5639	7049	8459	9869	11279	14098	16918	21148		
A07P10	START/END	⊙	13694	17118	20542	23965	27389	34236				
	MINIMUM	⊙	7228	9035	10841	12648	14455	18069				
	START/END	○	13860	17325	20790	24255	27720	34650				
	MINIMUM	○	7315	9144	10972	12801	14630	18287				
A07P12	START/END	⊙	19592	24490	29388	34287	39185					
	MINIMUM	⊙	10340	12925	15511	18096	20681					
	START/END	○	19758	24697	29637	34576	39516					
	MINIMUM	○	10428	13035	15642	18249	20856					
A07P14	START/END	⊙	23628	29535	35442							
	MINIMUM	⊙	12470	15588	18705							
	START/END	○	23793	29742	35690							
	MINIMUM	○	12558	15697	18836							
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A08P08	START/END	⊙	13078	16348	19617	22887	26157	32696	39235	49043	57217	
	MINIMUM	⊙	6902	8628	10354	12079	13805	17256	20707	25884	30198	
	START/END	○	13285	16606	19928	23249	26570	33213	39856	49819	58123	
	MINIMUM	○	7012	8765	10517	12270	14023	17529	21035	26294	30676	
A08P09	START/END	⊙	17047	21309	25570	29832	34094	42617	51141	63926		
	MINIMUM	⊙	8997	11246	13495	15745	17994	22492	26991	33739		
	START/END	○	17254	21567	25881	30194	34508	43135	51762	64702		
	MINIMUM	○	9106	11383	13659	15936	18212	22765	27319	34148		
A08P10	START/END	⊙	24419	30524	36629	42734	48838	61048				
	MINIMUM	⊙	12888	16110	19332	22554	25776	32220				
	START/END	○	24626	30783	36939	43096	49252	61565				
	MINIMUM	○	12997	16246	19496	22745	25994	32493				
A08P12	START/END	⊙	29463	36829	44195	51561	58927					
	MINIMUM	⊙	15550	19438	23325	27213	31100					
	START/END	○	29670	37088	44506	51923	59341					
	MINIMUM	○	15659	19574	23489	27404	31319					
A08P14	START/END	⊙	38905	48632	58358							
	MINIMUM	⊙	20533	25667	30800							
	START/END	○	39112	48890	58668							
	MINIMUM	○	20643	25803	30964							

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		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A09P10	START/END	☉	19289	24111	28933	33755	38578	48222	57866	72333	84389	96444
	MINIMUM	☉	10180	12725	15270	17815	20360	25451	30541	38176	44538	50901
	START/END	○	20083	25104	30125	35145	40166	50208	60249	75311	87863	100415
	MINIMUM	○	10369	12961	15553	18146	20738	25922	31107	38884	45364	51845
A09P11	START/END	☉	28101	35126	42151	49176	56201	70251	84302	105377		
	MINIMUM	☉	14831	18539	22246	25954	29662	37077	44493	55616		
	START/END	○	29091	36363	43636	50908	58181	72726	87272	109090		
	MINIMUM	○	15020	18774	22529	26284	30039	37549	45059	56323		
A09P14	START/END	☉	38514	48143	57772	67400	77029	96286				
	MINIMUM	☉	20327	25409	30491	35572	40654	50818				
	START/END	○	39736	49670	59604	69538	79472	99340				
	MINIMUM	○	20516	25645	30774	35903	41032	51289				
A09P16	START/END	☉	50530	63163	75796	88428	101061					
	MINIMUM	☉	26669	33336	40003	46670	53338					
	START/END	○	52019	65024	78028	91033	104038					
	MINIMUM	○	26858	33572	40286	47001	53715					
A09P20	START/END	☉	79369	99211								
	MINIMUM	☉	41889	52361								
	START/END	○	81498	101873								
	MINIMUM	○	42078	52597								
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A10P12	START/END	☉	34262	42828	51393	59959	68524	85655	102786	128483	149896	171310
	MINIMUM	☉	18083	22603	27124	31645	36165	45207	54248	67810	79112	90414
	START/END	○	34699	43374	52049	60723	69398	86748	104097	130122	151809	173496
	MINIMUM	○	18313	22892	27470	32048	36627	45784	54940	68675	80121	91567
A10P14	START/END	☉	46990	58738	70485	82233	93980	117475	140970	176213	205582	
	MINIMUM	☉	24800	31000	37201	43401	49601	62001	74401	93001	108501	
	START/END	○	47427	59284	71141	82998	94854	118568	142282	177852	207494	
	MINIMUM	○	25031	31289	37547	43804	50062	62578	75093	93866	109511	
A10P16	START/END	☉	56721	70901	85082	99262	113442	141803	170163			
	MINIMUM	☉	29936	37420	44904	52388	59872	74840	89808			
	START/END	○	57158	71448	85737	100027	114316	142895	171474			
	MINIMUM	○	30167	37708	45250	52792	60334	75417	90500			
A10P20	START/END	☉	90108	112635	135162	157689	180216					
	MINIMUM	☉	47557	59446	71335	83225	95114					
	START/END	○	90545	113181	135817	158454	181090					
	MINIMUM	○	47788	59734	71681	83628	95575					
A10P24	START/END	☉	131082	163853	196624							
	MINIMUM	☉	69182	86478	103774							
	START/END	○	131520	164399	197279							
	MINIMUM	○	69413	86766	104120							
A10P28	START/END	☉	190915									
	MINIMUM	☉	100761									
	START/END	○	191352									
	MINIMUM	○	100991									

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		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A11P16	START/END	⊙	71477	89347	107216	125085	142955	178693	214432	268040	312713	357386
	MINIMUM	⊙	37724	47155	56586	66017	75448	94310	113172	141465	165043	188621
	START/END	○	72466	90583	108699	126816	144932	181165	217399	271748	317039	362331
	MINIMUM	○	38246	47808	57369	66931	76492	95615	114738	143423	167326	191230
A11P20	START/END	⊙	113970	142462	170954	199447	227939	284924	341909	427386		
	MINIMUM	⊙	60151	75188	90226	105263	120301	150376	180452	225565		
	START/END	○	114958	143698	172438	201177	229917	287396	344875	431094		
	MINIMUM	○	60672	75841	91009	106177	121345	151681	182017	227522		
A11P24	START/END	⊙	166119	207649	249179	290708	332238	415298				
	MINIMUM	⊙	87674	109592	131511	153429	175348	219185				
	START/END	○	167108	208885	250662	292439	334216	417770				
	MINIMUM	○	88196	110245	132294	154343	176392	220490				
A11P28	START/END	⊙	242270	302837	363405	423972	484539					
	MINIMUM	⊙	127865	159831	191797	223763	255729					
	START/END	○	243259	304073	364888	425703	486517					
	MINIMUM	○	128387	160483	192580	224676	256773					
A11P32	START/END	⊙	317036	396295	475554							
	MINIMUM	⊙	167325	209156	250987							
	START/END	○	318025	397531	477037							
	MINIMUM	○	167846	209808	251770							
A11P36	START/END	⊙	401771									
	MINIMUM	⊙	212046									
	START/END	○	402760									
	MINIMUM	○	212568									
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A12P20	START/END	⊙	137794	172243	206691	241140	275588	344485	413382	516728	602849	688970
	MINIMUM	⊙	72725	90906	109087	127268	145449	181812	218174	272717	318170	363623
	START/END	○	139314	174142	208971	243799	278628	348285	417942	522427	609498	696569
	MINIMUM	○	73527	91908	110290	128672	147054	183817	220580	275725	321680	367634
A12P24	START/END	⊙	201119	251398	301678	351957	402237	502796	603356	754195	879894	
	MINIMUM	⊙	106146	132682	159219	185755	212292	265365	318438	398047	464388	
	START/END	○	202638	253298	303957	354617	405277	506596	607915	759894	886543	
	MINIMUM	○	106948	133685	160422	187159	213896	267370	320844	401055	467898	
A12P28	START/END	⊙	293587	366984	440381	513778	587174	733968	880762			
	MINIMUM	⊙	154949	193686	232423	271160	309898	387372	464846			
	START/END	○	295107	368884	442660	516437	590214	737767	885321			
	MINIMUM	○	155751	194689	233626	272564	311502	389377	467253			
A12P32	START/END	⊙	384375	480468	576562	672656	768750					
	MINIMUM	⊙	202864	253581	304297	355013	405729					
	START/END	○	385895	482368	578842	675315	771789					
	MINIMUM	○	203667	254583	305500	356417	407333					
A12P36	START/END	⊙	487267	609084	730901	852718						
	MINIMUM	⊙	257169	321461	385753	450046						
	START/END	○	488787	610984	733181	855378						
	MINIMUM	○	257971	322464	386957	451449						

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ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A13P24	START/END	⊙	241318	301647	361976	422306	482635	603294	723953	904941	1055765	1206588
	MINIMUM	⊙	127362	159203	191043	222884	254724	318405	382086	477608	557209	636810
	START/END	○	243580	304475	365370	426265	487160	608951	730741	913426	1065663	1217901
	MINIMUM	○	127362	159203	191043	222884	254724	318405	382086	477608	557209	636810
A13P28	START/END	⊙	352824	441030	529236	617442	705648	882060	1058472	1323090		
	MINIMUM	⊙	186213	232766	279319	325872	372425	465532	558638	698297		
	START/END	○	355087	443858	532630	621401	710173	887716	1065260	1331574		
	MINIMUM	○	187407	234258	281110	327962	374814	468517	562220	702775		
A13P32	START/END	⊙	462303	577879	693455	809030	924606	1155758	1386909			
	MINIMUM	⊙	243993	304992	365990	426988	487987	609983	731980			
	START/END	○	464566	580707	696849	812990	929131	1161414	1393697			
	MINIMUM	○	245187	306484	367781	429078	490375	612969	735562			
A13P36	START/END	⊙	586380	732974	879569	1026164	1172759	1465949				
	MINIMUM	⊙	309478	386848	464217	541587	618956	773695				
	START/END	○	588642	735803	882963	1030124	1177284	1471605				
	MINIMUM	○	310672	388340	466008	543676	621344	776681				
A13P40	START/END	⊙	725053	906316	1087580	1268843	1450106					
	MINIMUM	⊙	382667	478334	574000	669667	765334					
	START/END	○	727316	909145	1090974	1272802	1454631					
	MINIMUM	○	383861	479826	575792	671757	767722					
ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
		PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN										
A14P28	START/END	⊙	393481	508246	609895	711545	813194	1016492	1219791	1524738	1778861	2032985
	MINIMUM	⊙	246019	307524	369029	430534	492038	615048	738058	922572	1076334	1230096
	START/END	○	466464	583080	699696	816313	932929	1166161	1399393	1749241	2040781	2332322
	MINIMUM	○	246190	307737	369284	430832	492379	615474	738569	923211	1077079	1230948
A14P32	START/END	⊙	516339	666938	800325	933713	1067100	1333875	1600651	2000813	2334282	
	MINIMUM	⊙	322835	403543	484252	564961	645670	807087	968504	1210630	1412402	
	START/END	○	610656	763320	915985	1068649	1221313	1526641	1831969	2289961	2671622	
	MINIMUM	○	322291	402864	483436	564009	644582	805727	966873	1208591	1410023	
A14P36	START/END	⊙	655578	846788	1016146	1185503	1354861	1693576	2032292			
	MINIMUM	⊙	409892	512365	614838	717312	819785	1024731	1229677			
	START/END	○	774074	967593	1161111	1354630	1548148	1935185	2322222			
	MINIMUM	○	408539	510674	612809	714943	817078	1021348	1225617			
A14P40	START/END	⊙	811198	1047798	1257357	1466917	1676476	2095595				
	MINIMUM	⊙	507192	633990	760788	887586	1014384	1267980				
	START/END	○	956717	1195897	1435076	1674255	1913435	2391793				
	MINIMUM	○	504934	631168	757401	883635	1009868	1262335				

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ACTUATOR MODEL NO.	STROKE POSITION	OPERATING AIR PRESSURE (PSI)										
		PSI	40	50	60	70	80	100	120	150	175	200
PNEUMATIC DOUBLEACTING TORQUE OUTPUT START/MINIMUM/END IN IB-IN												
A15P40	START/END	⊙	1192559	1490699	1788839	2086979	2385119	2981398	3577678	4472098	5217447	
	MINIMUM	⊙	629406	786758	944109	1101461	1258813	1573516	1888219	2360274	2753653	
	START/END	○	1201003	1501253	1801504	2101755	2402005	3002507	3603008	4503760	5254386	
	MINIMUM	○	633862	792328	950794	1109259	1267725	1584656	1901587	2376984	2773148	
A15P44	START/END	⊙	1446765	1808456	2170147	2531838	2893529	3616912	4340294	5425367		
	MINIMUM	⊙	763570	954463	1145355	1336248	1527140	1908926	2290711	2863388		
	START/END	○	1455208	1819010	2182812	2546614	2910416	3638020	4365624	5457030		
	MINIMUM	○	768026	960033	1152040	1344046	1536053	1920066	2304079	2880099		
A15P48	START/END	⊙	1725180	2156475	2587770	3019065	3450360	4312950	5175540			
	MINIMUM	⊙	910512	1138140	1365767	1593395	1821023	2276279	2731535			
	START/END	○	1733623	2167029	2600435	3033841	3467246	4334058	5200870			
	MINIMUM	○	914968	1143710	1372452	1601194	1829936	2287419	2744903			
A15P52	START/END	⊙	2027805	2534757	3041708	3548659	4055611	5069513				
	MINIMUM	⊙	1070231	1337788	1605346	1872903	2140461	2675576				
	START/END	○	2036249	2545311	3054373	3563435	4072497	5090621				
	MINIMUM	○	1074687	1343358	1612030	1880702	2149373	2686717				