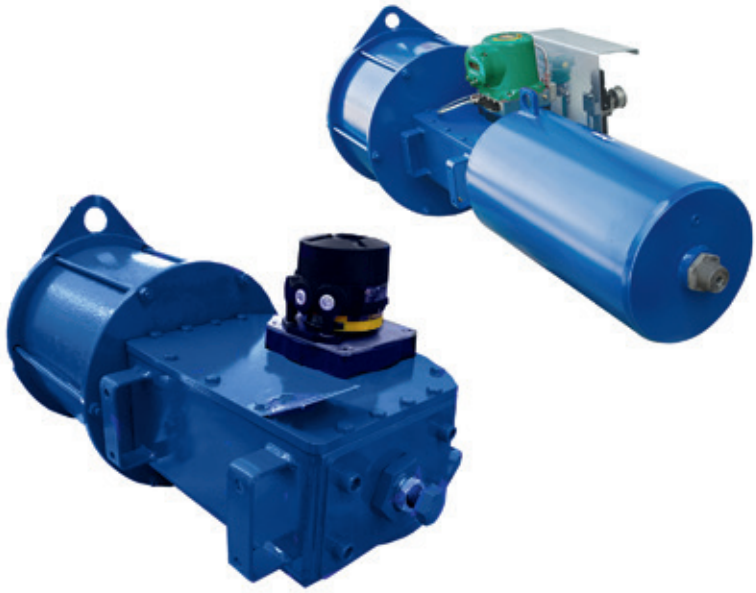
ALGA/ALGAS/ALGAS-QA PNEUMATIC ACTUATORS

SCOTCH YOKE DESIGN

Double acting and spring return pneumatic quarter turn actuators for on-off and modulating control of valves in heavy duty service. Available for output torques to 750,000 Nm.



GENERAL APPLICATION

ALGA, ALGAS and ALGAS-QA pneumatic actuators are designed for on-off or modulating control of quarter turn ball, butterfly, plug or damper style valves.

APPROVALS

Safety Integrity Level:
(IEC 61508-1÷7:2010): SIL 3
Area Classification:
(ATEX): II 2G 135° T4
Enclosure standards:
(IEC 60529): IP67M
(ANSI/NEMA 250): NEMA 4, 4X, 6
Pressure Equipment Directive:
PED 97/23/EC
Machinery Directive:
2006/42/EC

TECHNICAL DATA

Design pressure:	12 bar g
Supply medium:	Air, nitrogen or sweet gas Sour gas version available
Output torque	
ALGA:	Double acting torque up to 750,000 Nm
ALGAS/ALGAS-QA:	Spring starting torque up to 335,000 Nm Spring end torque up to 235,000 Nm
Ambient temperature	
Standard range:	-30°C to +100°C (-20°F to +210°F)
Extended temperature:	-60°C to +180°C (-70°F to +350°F)

FEATURES

- Totally enclosed, weatherproof housing in fabricated carbon steel for maximum strength.
- Guide bar resists transverse loads and supports the piston rod.
- Hard chromium plated alloy steel material guarantees corrosion protection and minimal friction.
- PTFE-impregnated bronze or sintered bronze bushings provide minimal friction and extended service life.
- Scotch yoke design with canted or symmetric torque arm allows close working to distinctive valve torque profiles.
- External travel stops for precise angular stroke adjustment between 82° and 98°.
- Electroless nickel plated and polished cylinder provides maximum corrosion resistance and reduces friction.
- Floating type piston seals provide low hysteresis and high sensitivity, preventing sticking problems.
- ALGAS spring return pack incorporates up to four springs, fully encapsulated in a factory welded cartridge ensuring personnel safety and simplifying assembly.
- ALGAS spring action can be changed easily in the field from to close to open or vice versa.
- Special coatings for offshore or corrosive environments.

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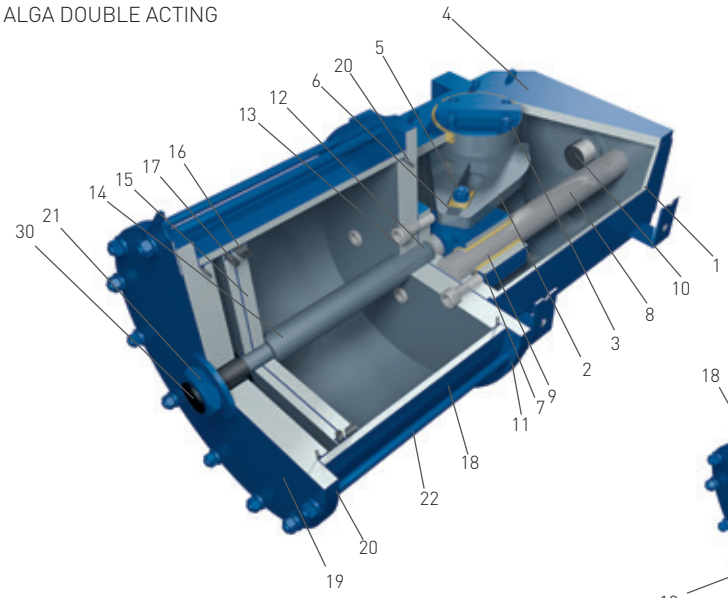
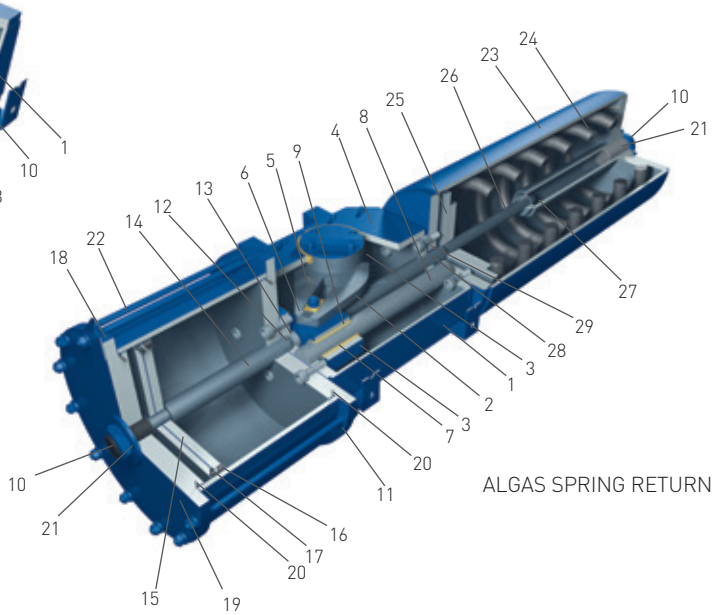
ALGA/ALGAS/ALGAS-QA PNEUMATIC ACTUATORS

SCOTCH YOKE DESIGN

ALGA DOUBLE ACTING





ALGAS SPRING RETURN

MATERIALS

Part		Material
1	Housing	Carbon steel
2	Yoke	Carbon steel
3	Yoke bushing	Bronze
4	Cover	Carbon steel
5	Guide block pin	Alloy steel
6	Sliding block	Bronze
7	Guide block	Carbon steel
8	Guide bar	Alloy steel (hard chrome plated)
9	Guide block bushing	Steel + bronze + PTFE
10	Travel stop screw	Carbon steel
11	Cylinder head flange	Carbon steel
12	Piston rod bushing	Steel + bronze + PTFE
13	Piston rod seal	NBR rubber
14	Piston rod	Alloy steel (hard chrome plated)
15	Piston	Carbon steel
16	Piston guide sliding ring	PTFE + graphite
17	Piston seal O-ring	NBR rubber
18	Cylinder tube	Carbon steel (ENP)
19	Cylinder end flange	Carbon steel
20	Cylinder seal O-ring	NBR rubber
21	Sealing washer	PVC
22	Tie rod	Alloy steel
23	Spring container	Carbon steel
24	Spring	Carbon steel
25	Spring thrust flange	Carbon steel
26	Guide rod	Alloy steel (hard chrome plated)
27	Guide rod bushing	Steel + bronze + PTFE
28	Container rod	Alloy steel (hard chrome plated)
29	Container rod bushing	Steel + bronze + PTFE
30	Travel stop screw	Carbon steel

Mounting brackets and tie rods available in stainless steel as an option.
Fluoroelastomer and fluorosilicone seals available as an option.

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 0.1C-85 TO 6C-585

		Operating supply pressure (bar g)												MOP*
		3.5		4		4.5		5		5.5		6		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
0.1C-85	0°	211	220	243	254	276	288	308	322	341	356	373	390	12
	45°	82	77	95	89	107	101	120	113	133	125	146	137	
	90°	119	107	137	124	155	140	174	157	192	174	210	190	
0.1C-100	0°	295	305	340	352	385	399	430	446	474	492	519	539	12
	45°	115	107	132	124	150	140	168	157	185	173	203	190	
	90°	166	149	191	172	217	194	242	217	267	240	293	263	
0.3C-100	0°	384	398	443	459	501	520	560	581	619	642	677	703	12
	45°	150	140	173	161	196	183	219	204	241	226	264	247	
	90°	216	194	249	224	282	254	315	283	348	313	381	343	
0.3C-135	0°	709	758	816	873	923	987	1030	1102	1136	1216	1243	1331	12
	45°	277	267	319	307	360	348	402	388	444	428	486	469	
	90°	399	370	460	426	520	482	580	538	640	594	700	650	
0.3C-175	0°	1202	1306	1382	1501	1562	1696	1741	1892	1921	2087	2100	2282	7
	45°	470	460	540	529	610	598	680	666	750	735	821	804	
	90°	678	637	779	733	880	828	981	923	1082	1019	1184	1114	
0.3C-235	0°	2188	2400	2512	2755	-	-	-	-	-	-	-	-	4
	45°	855	846	982	971	-	-	-	-	-	-	-	-	
	90°	1233	1172	1416	1345	-	-	-	-	-	-	-	-	
0.9C-235	0°	2530	2775	2905	3186	3279	3597	3653	4008	4028	4418	4402	4829	10
	45°	989	978	1135	1123	1281	1267	1428	1412	1574	1557	1720	1702	
	90°	1426	1355	1637	1555	1848	1756	2059	1956	2270	2157	2481	2357	
0.9C-280	0°	3603	3914	4134	4492	4666	5070	5197	5648	5729	6225	6260	6803	7
	45°	1408	1379	1616	1583	1824	1787	2031	1990	2239	2194	2447	2398	
	90°	2031	1911	2330	2193	2630	2475	2929	2757	3229	3039	3528	3321	
1.5C-280	0°	4556	4950	5228	5680	5900	6411	6572	7142	7244	7872	7916	8603	10
	45°	1781	1744	2043	2002	2306	2259	2569	2517	2831	2774	3094	3032	
	90°	2568	2416	2947	2773	3325	3130	3704	3487	4083	3843	4462	4200	
1.5C-335	0°	6541	7153	7503	8205	8465	9258	9427	10310	10389	11363	11351	12415	7
	45°	2557	2521	2933	2892	3309	3263	3685	3634	4061	4005	4437	4376	
	90°	3687	3492	4229	4006	4771	4520	5313	5034	5856	5547	6398	6061	
1.5C-385	0°	8691	9538	9961	10933	11232	12328	12502	13723	-	-	-	-	5
	45°	3397	3362	3893	3853	4390	4345	4887	4837	-	-	-	-	
	90°	4898	4657	5614	5338	6330	6019	7047	6700	-	-	-	-	
3C-335	0°	10827	11840	12420	13582	14012	15324	15604	17066	17197	18807	18789	20549	7
	45°	4232	4173	4854	4787	5477	5401	6099	6015	6722	6629	7344	7243	
	90°	6102	5780	7000	6631	7897	7481	8795	8332	9692	9182	10590	10033	
3C-385	0°	14385	15788	16488	18097	18591	20405	20694	22714	22797	25023	24900	27332	6
	45°	5623	5564	6445	6378	7267	7192	8089	8006	8911	8820	9733	9633	
	90°	8108	7708	9293	8835	10478	9963	11664	11090	12849	12217	14035	13344	
3C-435	0°	18418	20263	21102	23218	23787	26172	26472	29127	-	-	-	-	5
	45°	7199	7142	8248	8183	9298	9225	10347	10266	-	-	-	-	
	90°	10381	9893	11894	11336	13407	12778	14920	14221	-	-	-	-	
3C-485	0°	22962	25306	26299	28985	-	-	-	-	-	-	-	-	4
	45°	8975	8919	10280	10216	-	-	-	-	-	-	-	-	
	90°	12942	12355	14823	14151	-	-	-	-	-	-	-	-	
6C-485	0°	26844	29586	30746	33886	34648	38187	38550	42488	42452	46789	46354	51090	7
	45°	10493	10428	12018	11944	13543	13459	15069	14975	16594	16491	18119	18007	
	90°	15130	14445	17330	16545	19529	18644	21728	20744	23927	22844	26127	24944	
6C-535	0°	32760	36150	37508	41390	42255	46630	47003	51869	51751	57109	-	-	5.5
	45°	12805	12742	14661	14588	16517	16435	18373	18282	20229	20129	-	-	
	90°	18464	17650	21140	20208	23817	22766	26493	25325	29169	27883	-	-	
6C-585	0°	39169	43264	44846	49534	50523	55805	-	-	-	-	-	-	4.5
	45°	15311	15249	17530	17459	19749	19669	-	-	-	-	-	-	
	90°	22077	21123	25277	24184	28476	27246	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 0.1C-85 TO 6C-585

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
0.1C-85	0°	438	458	503	527	568	595	633	663	698	731	763	799	12
	45°	171	161	196	185	222	209	247	233	273	257	298	281	
	90°	247	224	283	257	320	290	357	323	393	357	430	390	
0.1C-100	0°	609	633	699	726	789	820	879	914	969	1007	1059	1101	12
	45°	238	223	273	256	308	289	343	322	379	355	414	388	
	90°	343	309	394	354	445	400	495	446	546	491	597	537	
0.3C-100	0°	794	825	912	947	1029	1069	1146	1191	1263	1313	1381	1435	12
	45°	310	290	356	333	402	376	448	419	494	462	539	505	
	90°	448	402	514	462	580	522	646	581	712	641	778	700	
0.3C-135	0°	1457	1560	1671	1789	1884	2018	2098	2247	2312	2476	2525	2705	12
	45°	569	550	653	630	736	711	820	792	903	872	987	953	
	90°	821	761	941	873	1062	985	1182	1097	1303	1209	1423	1320	
0.3C-175	0°	2459	2672	-	-	-	-	-	-	-	-	-	-	7
	45°	961	942	-	-	-	-	-	-	-	-	-	-	
	90°	1386	1305	-	-	-	-	-	-	-	-		-	
0.3C-235	0°	-	-	-	-	-	-	-	-	-	-	-	-	4
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
0.9C-235	0°	5151	5651	5900	6472	6648	7294	7397	8115	8146	8937	-	-	10
	45°	2013	1991	2306	2281	2598	2570	2891	2860	3184	3150	-	-	
	90°	2903	2759	3325	3160	3747	3561	4169	3962	4591	4363	-	-	
0.9C-280	0°	7323	7959	-	-	-	-	-	-	-	-	-	-	7
	45°	2862	2805	-	-	-	-	-	-	-	-	-	-	
	90°	4127	3886	-	-	-	-	-	-	-	-	-	-	
1.5C-280	0°	9261	10064	10605	11526	11949	12987	13293	14448	-	-	-	-	10
	45°	3620	3547	4145	4062	4670	4577	5196	5092	-	-	-	-	
	90°	5219	4914	5977	5627	6735	6340	7492	7054	-	-	-	-	
1.5C-335	0°	13275	14520	-	-	-	-	-	-	-	-	-	-	7
	45°	5189	5117	-	-	-	-	-	-	-	-	-	-	
	90°	7482	7089	-	-	-	-	-	-	-	-	-	-	
1.5C-385	0°	-	-	-	-	-	-	-	-	-	-	-	-	5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
3C-335	0°	21973	24033	25158	27517	-	-	-	-	-	-	-	-	7
	45°	8589	8471	9834	9699	-	-	-	-	-	-	-	-	
	90°	12385	11734	14180	13435	-	-	-	-	-	-	-	-	
3C-385	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
3C-435	0°	-	-	-	-	-	-	-	-	-	-	-	-	5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
3C-485	0°	-	-	-	-	-	-	-	-	-	-	-	-	4
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
6C-485	0°	54158	59691	-	-	-	-	-	-	-	-	-	-	7
	45°	21169	21039	-	-	-	-	-	-	-	-	-	-	
	90°	30525	29144	-	-	-	-	-	-	-	-	-	-	
6C-535	0°	-	-	-	-	-	-	-	-	-	-	-	-	5.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
6C-585	0°	-	-	-	-	-	-	-	-	-	-	-	-	4.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 14C-635 TO 50C2-1000

		Operating supply pressure (bar g)												MOP*
		3.5		4		4.5		5		5.5		6		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
14C-635	0°	50441	55473	57752	63513	65062	71554	72373	79594	79683	87635	86994	95676	7
	45°	19717	19552	22574	22386	25432	25220	28290	28054	31147	30888	34005	33722	
	90°	28430	27084	32551	31010	36671	34935	40792	38861	44912	42787	49033	46713	
14C-735	0°	67580	74492	77374	85290	87168	96087	96962	106884	106757	117681	-	-	5.5
	45°	26416	26256	30244	30062	34073	33867	37901	37673	41730	41478	-	-	
	90°	38090	36370	43611	41642	49131	46913	54651	52185	60172	57456	-	-	
18C-635	0°	58008	63794	66415	73040	74822	82287	83229	91534	91636	100780	100043	110027	9
	45°	22674	22485	25961	25744	29247	29003	32533	32262	35819	35522	39105	38781	
	90°	32695	31146	37434	35661	42172	40176	46911	44690	51649	49205	56388	53720	
18C-685	0°	67503	74331	77286	85105	87069	95879	96852	106652	106635	117426	116418	128200	6
	45°	26386	26199	30210	29996	34034	33794	37858	37591	41682	41389	45506	45186	
	90°	38047	36291	43561	41551	49075	46812	54589	52072	60103	57332	65617	62592	
18C-735	0°	77717	85666	88980	98083	100243	110500	111507	122916	122770	135333	134033	147750	6
	45°	30378	30194	34781	34571	39184	38947	43587	43324	47989	47700	52392	52077	
	90°	43804	41826	50152	47888	56501	53950	62849	60013	69198	66075	75546	72137	
18C2-635	0°	115491	128171	132230	146747	148968	165324	-	-	-	-	-	-	4.5
	45°	45144	45176	51687	51723	58230	58271	-	-	-	-	-	-	
	90°	65095	62578	74529	71648	83964	80718	-	-	-	-	-	-	
18C2-685	0°	134480	149245	153971	170876	-	-	-	-	-	-	-	-	4
	45°	52567	52604	60186	60228	-	-	-	-	-	-	-	-	
	90°	75798	72867	86784	83429	-	-	-	-	-	-	-	-	
32C-685	0°	79242	87258	90727	99906	102211	112553	113696	125201	125180	137848	136665	150496	12
	45°	30975	30755	35464	35213	39953	39671	44442	44129	48931	48587	53421	53045	
	90°	44664	42603	51137	48778	57610	54953	64083	61128	70556	67303	77029	73478	
32C-735	0°	91233	100565	104455	115141	117677	129717	130899	144293	144122	158869	157344	173446	10
	45°	35662	35446	40830	40583	45999	45721	51167	50858	56335	55996	61504	61134	
	90°	51422	49100	58874	56216	66327	63333	73779	70450	81232	77566	88685	84683	
32C-835	0°	117747	129990	134812	148831	151877	167671	168941	186512	186006	205353	203071	224193	7
	45°	46026	45817	52696	52458	59367	59099	66037	65739	72708	72380	79378	79021	
	90°	66366	63466	75985	72665	85603	81864	95221	91063	104840	100261	114458	109460	
32C2-685	0°	157868	175201	180749	200594	203630	225987	226511	251380	249391	276773	272272	302166	12
	45°	61709	61752	70653	70703	79597	79653	88541	88603	97484	97553	106428	106503	
	90°	88980	85540	101877	97938	114773	110336	127670	122734	140566	135132	153462	147530	
50C-935	0°	164043	181019	187817	207255	211592	233492	235366	259729	259141	285966	282915	312202	7
	45°	64123	63803	73416	73051	82709	82298	92002	91546	101295	100793	110589	110041	
	90°	92460	88380	105861	101190	119261	114000	132661	126810	146061	139620	159461	152430	
50C-1000	0°	187644	207211	214839	237243	242034	267276	269229	297309	296423	327342	323618	357374	7
	45°	73348	73035	83978	83620	94608	94206	105239	104792	115869	115377	126499	125963	
	90°	105763	101169	121091	115832	136419	130495	151747	145158	167075	159822	182403	174485	
50C-1100	0°	227049	250626	259955	286951	292861	323276	325767	359602	358672	395927	391578	432253	6
	45°	88751	88337	101614	101141	114476	113944	127339	126748	140201	139551	153064	152355	
	90°	127973	122366	146520	140101	165067	157837	183614	175572	202161	193308	220708	211043	
50C2-935	0°	327154	363073	374569	415694	-	-	-	-	-	-	-	-	4
	45°	127881	127971	146415	146519	-	-	-	-	-	-	-	-	
	90°	184396	177267	211121	202959	-	-	-	-	-	-	-	-	
50C2-1000	0°	374356	415457	-	-	-	-	-	-	-	-	-	-	3.5
	45°	146332	146435	-	-	-	-	-	-	-	-	-	-	
	90°	211001	202843	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 14C-635 TO 50C2-1000

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
14C-635	0°	101614	111757	-	-	-	-	-	-	-	-	-	-	7
	45°	39720	39390	-	-	-	-	-	-	-	-	-	-	
	90°	57273	54564	-	-	-	-	-	-	-	-	-	-	
14C-735	0°	-	-	-	-	-	-	-	-	-	-	-	-	5.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
18C-635	0°	116857	128521	133671	147014	150485	165507	-	-	-	-	-	-	9
	45°	45678	45299	52250	51817	58823	58336	-	-	-	-	-	-	
	90°	65865	62749	75342	71778	84819	80807	-	-	-	-	-	-	
18C-685	0°	135984	149748	155550	171296	-	-	-	-	-	-	-	-	6
	45°	53155	52781	60803	60376	-	-	-	-	-	-	-	-	
	90°	76645	73113	87674	83633	-	-	-	-	-	-	-	-	
18C-735	0°	156560	172583	-	-	-	-	-	-	-	-	-	-	6
	45°	61198	60830	-	-	-	-	-	-	-	-	-	-	
	90°	88243	84262	-	-	-	-	-	-	-	-	-	-	
18C2-635	0°	-	-	-	-	-	-	-	-	-	-	-	-	4.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
18C2-685	0°	-	-	-	-	-	-	-	-	-	-	-	-	4
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
32C-685	0°	159633	175791	182602	201086	205571	226381	228540	251676	251509	276972	274478	302267	12
	45°	62399	61960	71377	70876	80356	79792	89334	88708	98312	97623	107291	106539	
	90°	89975	85828	102921	98178	115867	110528	128813	122879	141760	135229	154706	147579	
32C-735	0°	183788	202598	210233	231750	236677	260902	263121	290054	289566	319207	-	-	10
	45°	71841	71409	82178	81684	92514	91959	102851	102235	113188	112510	-	-	
	90°	103590	98916	118495	113150	133400	127383	148305	141616	163210	155850	-	-	
32C-835	0°	237201	261875	271330	299556	-	-	-	-	-	-	-	-	7
	45°	92719	92302	106060	105584	-	-	-	-	-	-	-	-	
	90°	133695	127858	152932	146255	-	-	-	-	-	-	-	-	
32C2-685	0°	-	-	-	-	-	-	-	-	-	-	-	-	12
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
50C-935	0°	330464	364676	378013	417150	-	-	-	-	-	-	-	-	7
	45°	129175	128536	147761	147032	-	-	-	-	-	-	-	-	
	90°	186261	178050	213062	203669	-	-	-	-	-	-	-	-	
50C-1000	0°	378008	417440	-	-	-	-	-	-	-	-	-	-	7
	45°	147759	147134	-	-	-	-	-	-	-	-	-	-	
	90°	213059	203811	-	-	-	-	-	-	-	-	-	-	
50C-1100	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
50C2-935	0°	-	-	-	-	-	-	-	-	-	-	-	-	4
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
50C2-1000	0°	-	-	-	-	-	-	-	-	-	-	-	-	3.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 80C-935 TO 80C2-1200

		Operating supply pressure (bar g)												MOP*
		3.5		4		4.5		5		5.5		6		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
80C-935	0°	191384	211188	219120	241798	246857	272408	274594	303017	302331	333627	330068	364236	12
	45°	74810	74437	85652	85226	96494	96015	107336	106804	118178	117592	129020	128381	
	90°	107871	103111	123504	118056	139138	133000	154771	147945	170405	162890	186038	177835	
80C-1000	0°	218918	241746	250645	276784	282373	311822	314100	346861	345827	381899	377555	416937	10
	45°	85573	85207	97975	97557	110377	109907	122778	122257	135180	134607	147582	146957	
	90°	123390	118030	141273	135137	159156	152244	177038	169351	194921	186459	212804	203566	
80C-1100	0°	264891	292397	303281	334776	341671	377156	380061	419536	418451	461915	456841	504295	7
	45°	103543	103060	118549	117998	133556	132935	148562	147873	163568	162810	178575	177748	
	90°	149302	142760	170940	163451	192578	184143	214216	204834	235854	225526	257492	246217	
80C-1200	0°	315242	348276	360930	398754	406617	449232	452304	499710	497992	550189	543679	600667	7
	45°	123225	122756	141084	140548	158942	158340	176801	176132	194660	193924	212519	211716	
	90°	177682	170043	203433	194688	229184	219334	254935	243979	280686	268625	306437	293270	
80C2-935	0°	381679	423585	436998	484977	492316	546368	547634	607760	602952	669152	658270	730543	6
	45°	149195	149300	170818	170939	192441	192577	214065	214216	235688	235854	257311	257493	
	90°	215128	206811	246308	236785	277487	266759	308667	296733	339846	326707	371025	356681	
80C2-1000	0°	436748	484700	500048	554949	563347	625198	626646	695447	-	-	-	-	5
	45°	170720	170841	195464	195602	220207	220362	244950	245123	-	-	-	-	
	90°	246167	236650	281845	270949	317523	305247	353201	339546	-	-	-	-	
80C2-1100	0°	528361	586371	604938	671356	-	-	-	-	-	-	-	-	4
	45°	206531	206677	236464	236631	-	-	-	-	-	-	-	-	
	90°	297804	286290	340965	327783	-	-	-	-	-	-	-	-	
80C2-1200	0°	629064	698130	-	-	-	-	-	-	-	-	-	-	3.5
	45°	245895	246068	-	-	-	-	-	-	-	-	-	-	
	90°	354563	340856	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, MODELS 80C-935 TO 80C2-1200

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
80C-935	0°	385541	425455	441015	486675	496489	547894	551962	609113	607436	670332	662910	731551	12
	45°	150704	149959	172388	171537	194072	193115	215757	214693	237441	236270	259125	257848	
	90°	217305	207725	248572	237614	279839	267504	311106	297394	342373	327284	373640	357173	
80C-1000	0°	441009	487013	504464	557090	567919	627166	631373	697243	-	-	-	-	10
	45°	172386	171656	197190	196356	221994	221056	246798	245756	-	-	-	-	
	90°	248569	237780	284334	271994	320100	306208	355865	340422	-	-	-	-	
80C-1100	0°	533621	589054	610402	673813	-	-	-	-	-	-	-	-	7
	45°	208587	207623	238600	237498	-	-	-	-	-	-	-	-	
	90°	300769	287600	344045	328983	-	-	-	-	-	-	-	-	
80C-1200	0°	635054	701623	-	-	-	-	-	-	-	-	-	-	7
	45°	248236	247299	-	-	-	-	-	-	-	-	-	-	
	90°	357940	342561	-	-	-	-	-	-	-	-	-	-	
80C2-935	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
80C2-1000	0°	-	-	-	-	-	-	-	-	-	-	-	-	5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
80C2-1100	0°	-	-	-	-	-	-	-	-	-	-	-	-	4
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
80C2-1200	0°	-	-	-	-	-	-	-	-	-	-	-	-	3.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 0.1S-85 TO 6S-585

		Operating supply pressure (bar g)														MOP*
		3		3.5		4		4.5		5		5.5		6		
Model	Pos.	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
0.1S-85	0°	112	118	132	139	152	161	173	182	193	204	214	226	234	247	12
	45°	71	66	84	79	97	91	109	103	122	115	135	128	148	140	
	90°	128	109	151	129	174	149	198	169	221	189	244	209	268	229	
0.1S-100	0°	156	164	185	193	213	223	241	253	269	282	298	312	326	342	12
	45°	99	92	117	109	135	126	153	143	171	160	189	176	206	193	
	90°	179	152	211	179	244	207	276	234	308	262	340	289	373	317	
0.3S-100	0°	204	213	241	252	278	291	314	329	351	368	388	407	425	445	12
	45°	129	121	153	143	176	164	199	186	223	208	246	230	269	252	
	90°	233	198	276	234	318	270	360	306	402	341	444	377	486	413	
0.3S-135	0°	378	408	445	481	512	553	579	626	646	698	713	771	780	843	12
	45°	239	231	282	272	324	313	367	354	409	395	452	437	494	478	
	90°	432	379	509	446	585	513	662	581	739	648	816	715	892	783	
0.3S-175	0°	642	704	755	828	867	951	980	1075	1093	1199	1205	1323	1318	1446	10
	45°	407	399	478	469	550	539	621	609	693	679	764	749	836	819	
	90°	734	653	863	768	992	883	1121	998	1250	1113	1379	1227	1507	1342	
0.3S-235	0°	1170	1296	1373	1521	1576	1746	1780	1971	1983	2197	2186	2422	2389	2647	6
	45°	742	734	871	862	999	989	1128	1117	1257	1244	1386	1372	1515	1499	
	90°	1338	1203	1571	1412	1803	1621	2035	1830	2268	2038	2500	2247	2733	2456	
0.9S-235	0°	1353	1499	1588	1759	1823	2019	2058	2280	2293	2540	2528	2800	2763	3061	12
	45°	858	849	1007	996	1156	1144	1305	1291	1454	1439	1603	1586	1752	1734	
	90°	1547	1391	1816	1632	2085	1874	2354	2116	2622	2357	2891	2599	3160	2840	
0.9S-280	0°	1928	2115	2261	2481	2595	2847	2928	3213	3262	3580	3595	3946	3929	4312	10
	45°	1222	1198	1434	1405	1645	1613	1857	1820	2068	2028	2280	2235	2491	2443	
	90°	2205	1962	2586	2302	2968	2642	3349	2982	3731	3322	4112	3662	4494	4002	
1.5S-280	0°	2645	2901	3102	3404	3560	3906	4017	4409	4475	4911	4933	5413	5390	5916	12
	45°	1547	1510	1815	1772	2082	2034	2350	2295	2618	2557	2885	2818	3153	3080	
	90°	2551	2271	2993	2664	3434	3058	3876	3451	4317	3844	4759	4238	5200	4631	
1.5S-335	0°	3799	4195	4454	4919	5109	5642	5764	6366	6419	7090	7074	7814	7729	8537	10
	45°	2222	2184	2605	2561	2989	2938	3372	3314	3755	3691	4138	4068	4521	4445	
	90°	3665	3284	4297	3850	4929	4417	5561	4984	6193	5550	6825	6117	7457	6683	
1.5S-385	0°	5052	5600	5917	6559	6783	7518	7648	8477	8513	9437	9378	10396	10243	11355	7
	45°	2955	2915	3461	3415	3968	3914	4474	4414	4980	4913	5486	5412	5992	5912	
	90°	4874	4384	5709	5135	6544	5885	7378	6636	8213	7387	9048	8138	9883	8889	
3S-335	0°	6206	6853	7276	8035	8346	9218	9416	10400	10486	11582	11556	12764	12627	13947	12
	45°	3680	3619	4314	4244	4949	4868	5584	5492	6218	6117	6853	6741	7487	7366	
	90°	6160	5520	7223	6472	8285	7424	9347	8376	10409	9329	11471	10281	12534	11233	
3S-385	0°	8253	9148	9667	10715	11080	12282	12494	13849	13907	15416	15320	16983	16734	18550	9
	45°	4894	4831	5732	5659	6570	6486	7408	7314	8247	8142	9085	8969	9923	9797	
	90°	8193	7368	9596	8630	10999	9892	12402	11154	13805	12417	15208	13679	16611	14941	
3S-435	0°	10573	11747	12377	13753	14181	15758	15986	17763	17790	19768	19594	21773	21398	23778	7
	45°	6269	6204	7339	7263	8409	8322	9479	9381	10549	10440	11619	11499	12689	12558	
	90°	10495	9462	12286	11077	14077	12692	15868	14307	17659	15922	19450	17537	21241	19152	
3S-485	0°	13188	14678	15431	17175	17674	19672	19917	22169	22160	24666	24402	27162	26645	29659	6
	45°	7820	7752	9150	9071	10480	10389	11810	11708	13140	13027	14470	14345	15800	15664	
	90°	13091	11822	15317	13833	17544	15844	19770	17855	21997	19866	24223	21877	26449	23888	
6S-485	0°	15390	17130	18008	20044	20625	22958	23243	25871	25860	28785	28478	31699	31095	34613	10
	45°	9143	9064	10698	10606	12253	12148	13808	13690	15363	15232	16918	16774	18473	18316	
	90°	15336	13850	17944	16206	20553	18562	23161	20918	25769	23274	28377	25630	30986	27985	
6S-535	0°	18791	20941	21976	24491	25161	28041	28346	31591	31531	35141	34716	38691	37901	42240	7
	45°	11163	11081	13055	12960	14948	14838	16840	16717	18732	18595	20624	20474	22516	22352	
	90°	18725	16932	21899	19802	25072	22672	28246	25542	31420	28413	34594	31283	37767	34153	
6S-585	0°	22468	25062	26276	29310	30084	33559	33892	37807	37700	42055	41509	46303	45317	50552	7
	45°	13347	13262	15610	15510	17872	17758	20135	20006	22397	22254	24659	24502	26922	26750	
	90°	22388	20264	26183	23698	29978	27133	33773	30568	37567	34003	41362	37438	45157	40873	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 0.1S-85 TO 6S-585

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
0.1S-85	0°	275	290	316	334	356	377	397	420	438	463	479	506	12
	45°	174	164	200	189	226	213	252	238	278	262	303	287	
	90°	314	269	361	310	408	350	454	390	501	430	548	470	
0.1S-100	0°	382	401	439	460	495	520	552	579	608	638	665	698	12
	45°	242	227	278	261	314	294	350	328	385	361	421	395	
	90°	437	372	502	427	566	482	631	537	696	592	760	647	
0.3S-100	0°	498	523	572	600	646	677	719	755	793	832	866	909	12
	45°	316	296	363	340	409	384	456	427	503	471	549	515	
	90°	570	485	654	557	739	629	823	700	907	772	991	844	
0.3S-135	0°	914	989	1048	1134	1182	1279	1317	1424	1451	1569	1585	1715	12
	45°	580	560	665	642	750	724	835	807	920	889	1005	971	
	90°	1046	917	1199	1052	1352	1187	1506	1322	1659	1456	1813	1591	
0.3S-175	0°	1543	1694	1769	1941	1994	2189	2220	2436	2445	2684	-	-	10
	45°	978	959	1121	1100	1264	1240	1407	1380	1550	1520	-	-	
	90°	1765	1572	2023	1801	2281	2031	2539	2261	2796	2490	-	-	
0.3S-235	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
0.9S-235	0°	3233	3582	3703	4102	4173	4623	4643	5144	5113	5665	5582	6185	12
	45°	2050	2029	2348	2324	2646	2619	2944	2914	3242	3209	3540	3504	
	90°	3697	3324	4235	3807	4772	4290	5310	4774	5847	5257	6385	5740	
0.9S-280	0°	4596	5045	5263	5777	5931	6510	6598	7242	7265	7975	-	-	10
	45°	2914	2858	3337	3273	3760	3688	4184	4103	4607	4518	-	-	
	90°	5257	4682	6020	5361	6783	6041	7546	6721	8309	7401	-	-	
1.5S-280	0°	6305	6921	7221	7926	8136	8930	9051	9935	9966	10940	10882	11945	12
	45°	3689	3603	4224	4126	4759	4649	5295	5173	5830	5696	6366	6219	
	90°	6083	5418	6966	6204	7850	6991	8733	7778	9616	8564	10499	9351	
1.5S-335	0°	9039	9985	10349	11432	11659	12880	12970	14327	-	-	-	-	10
	45°	5288	5198	6054	5952	6821	6706	7587	7459	-	-	-	-	
	90°	8721	7816	9985	8949	11249	10083	12513	11216	-	-	-	-	
1.5S-385	0°	11974	13274	-	-	-	-	-	-	-	-	-	-	7
	45°	7004	6911	-	-	-	-	-	-	-	-	-	-	
	90°	11552	10391	-	-	-	-	-	-	-	-	-	-	
3S-335	0°	14767	16311	16907	18676	19047	21040	21187	23405	23327	25769	25468	28134	12
	45°	8756	8614	10025	9863	11295	11112	12564	12361	13833	13610	15102	14859	
	90°	14658	13138	16783	15042	18907	16947	21031	18851	23156	20755	25280	22660	
3S-385	0°	19560	21684	22387	24818	25214	27952	-	-	-	-	-	-	9
	45°	11599	11452	13275	13107	14951	14762	-	-	-	-	-	-	
	90°	19417	17465	22222	19989	25028	22513	-	-	-	-	-	-	
3S-435	0°	25007	27789	-	-	-	-	-	-	-	-	-	-	7
	45°	14829	14676	-	-	-	-	-	-	-	-	-	-	
	90°	24823	22382	-	-	-	-	-	-	-	-	-	-	
3S-485	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
6S-485	0°	36331	40440	41566	46268	46801	52095	52036	57923	-	-	-	-	10
	45°	21583	21399	24693	24483	27803	27567	30913	30650	-	-	-	-	
	90°	36202	32697	41419	37409	46635	42121	51852	46832	-	-	-	-	
6S-535	0°	44271	49340	50641	56440	-	-	-	-	-	-	-	-	7
	45°	26301	26109	30085	29866	-	-	-	-	-	-	-	-	
	90°	44115	39893	50462	45633	-	-	-	-	-	-	-	-	
6S-585	0°	52933	59048	-	-	-	-	-	-	-	-	-	-	7
	45°	31446	31246	-	-	-	-	-	-	-	-	-	-	
	90°	52746	47743	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 14S-635 TO 50S2-1000

		Operating supply pressure (bar g)														MOP*
		3		3.5		4		4.5		5		5.5		6		
Model	Pos.	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
14S-635	0°	29368	32617	34346	38146	39324	43676	44301	49205	49279	54734	54257	60263	59234	65793	10
	45°	17180	16982	20092	19861	23004	22740	25916	25619	28828	28497	31740	31376	34652	34255	
	90°	28334	25534	33137	29862	37939	34191	42742	38519	47544	42848	52347	47176	57149	51505	
14S-735	0°	39346	43801	46015	51226	52684	58650	59353	66075	66022	73500	72691	80925	79360	88350	7
	45°	23018	22805	26919	26671	30820	30536	34722	34402	38623	38268	42524	42134	46426	46000	
	90°	37961	34289	44396	40101	50830	45914	57264	51726	63698	57539	70132	63351	76567	69163	
18S-635	0°	33764	37499	39487	43856	45209	50213	50932	56570	56655	62926	62378	69283	68100	75640	12
	45°	19758	19530	23107	22841	26455	26152	29804	29462	33153	32773	36502	36084	39851	39395	
	90°	32595	29374	38120	34353	43645	39333	49170	44312	54694	49292	60219	54271	65744	59251	
18S-685	0°	39290	43693	45950	51100	52609	58507	59269	65913	65928	73320	72588	80727	79247	88133	12
	45°	22992	22756	26889	26614	30786	30471	34683	34329	38580	38186	42477	42044	46374	45901	
	90°	37931	34226	44360	40028	50789	45830	57218	51631	63647	57433	70076	63235	76505	69037	
18S-735	0°	45236	50357	52903	58893	60570	67429	68237	75965	75904	84501	83571	93037	91238	101573	10
	45°	26471	26227	30957	30672	35444	35118	39931	39564	44417	44010	48904	48455	53391	52901	
	90°	43670	39446	51072	46132	58474	52819	65876	59505	73278	66192	80679	72878	88081	79565	
18S2-635	0°	67222	75342	78616	88113	90010	100884	101405	113655	112799	126426	124194	139197	135588	151968	7
	45°	39336	39240	46004	45891	52672	52542	59340	59194	66008	65845	72675	72496	79343	79148	
	90°	64895	59017	75896	69021	86896	79025	97896	89029	108896	99032	119896	109036	130896	119040	
18S2-685	0°	78275	87731	91543	102601	104810	117472	118078	132343	131346	147213	144614	162084	157882	176954	6
	45°	45804	45692	53569	53437	61333	61182	69097	68926	76861	76671	84625	84416	92389	92161	
	90°	75566	68721	88375	80370	101184	92019	113992	103667	126801	115316	139610	126964	152419	138613	
32S-685	0°	45535	50638	53253	59222	60971	67806	68689	76390	76407	84973	84125	93557	91843	102141	12
	45°	27002	26744	31579	31278	36155	35811	40732	40345	45309	44878	49885	49412	54462	53945	
	90°	45200	40786	52862	47699	60523	54613	68184	61527	75845	68441	83506	75354	91168	82268	
32S-735	0°	52425	58360	61311	68253	70197	78146	79083	88039	87968	97932	96854	107824	105740	117717	12
	45°	31088	30823	36357	36047	41626	41272	46895	46497	52165	51722	57434	56947	62703	62172	
	90°	52040	47006	60860	54974	69681	62942	78501	70910	87322	78878	96142	86846	104962	94814	
32S-835	0°	67661	75437	79129	88224	90598	101011	102066	113798	113534	126585	125002	139373	136470	152160	12
	45°	40123	39842	46923	46595	53724	53348	60524	60102	67325	66855	74125	73609	80926	80362	
	90°	67164	60760	78548	71059	89932	81358	101315	91657	112699	101956	124083	112256	135467	122555	
32S2-685	0°	90716	101674	106092	118909	121469	136143	136845	153377	152222	170611	167599	187845	182975	205079	9
	45°	53794	53699	62912	62801	72030	71903	81149	81005	90267	90107	99385	99210	108503	108312	
	90°	90049	81892	105312	95773	120576	109654	135840	123535	151103	137416	166367	151297	181630	165178	
50S-935	0°	94265	105050	110242	122857	126219	140664	142196	158471	158173	176278	174151	194085	190128	211891	12
	45°	55898	55482	65373	64886	74847	74291	84321	83696	93796	93100	103270	102505	112745	111909	
	90°	93572	84611	109432	98953	125291	113296	141151	127638	157011	141980	172870	156323	188730	170665	
50S-1000	0°	107827	120250	126103	140634	144378	161017	162654	181400	180930	201783	199206	222166	217482	242550	10
	45°	63941	63510	74778	74275	85615	85040	96453	95806	107290	106571	118128	117336	128965	128101	
	90°	107034	96854	125176	113271	143317	129689	161458	146106	179600	162524	197741	178941	215883	195358	
50S-1100	0°	130470	145445	152584	170099	174698	194753	196812	219407	218925	244061	241039	268715	263153	293369	9
	45°	77368	76816	90481	89837	103595	102858	116708	115879	129821	128900	142935	141921	156048	154942	
	90°	129511	117147	151462	137004	173414	156861	195365	176719	217316	196576	239267	216433	261218	236290	
50S2-935	0°	187993	210703	219857	246417	251722	282131	283587	317845	315452	353559	347317	389274	379181	424988	6
	45°	111479	111282	130374	130144	149270	149006	168166	167869	187061	186731	205957	205593	224852	224455	
	90°	186611	169708	218241	198473	249872	227239	281502	256004	313133	284770	344763	313535	376394	342301	
50S2-1000	0°	215117	241103	251579	281970	288041	322837	324503	363704	360965	404571	397427	445437	-	-	5.5
	45°	127563	127338	149185	148921	170807	170505	192428	192089	214050	213672	235672	235256	-	-	
	90°	213535	194194	249729	227109	285923	260025	322117	292940	358311	325856	394505	358772	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 14S-635 TO 50S2-1000

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
14S-635	0°	69190	76851	79145	87910	89101	98968	99056	110027	-	-	-	-	10
	45°	40476	40013	46300	45770	52124	51528	57948	57286	-	-	-	-	
	90°	66754	60162	76359	68819	85964	77476	95569	86133	-	-	-	-	
14S-735	0°	92698	103199	106036	118049	-	-	-	-	-	-	-	-	7
	45°	54229	53731	62031	61463	-	-	-	-	-	-	-	-	
	90°	89435	80788	102303	92413	-	-	-	-	-	-	-	-	
18S-635	0°	79546	88354	90991	101067	102437	113781	113883	126495	125328	139208	136774	151922	12
	45°	46548	46016	53246	52638	59944	59259	66641	65881	73339	72502	80037	79124	
	90°	76793	69210	87843	79168	98892	89127	109942	99086	120991	109045	132041	119004	
18S-685	0°	92566	102947	105885	117760	119204	132574	132523	147387	145842	162200	159161	177014	12
	45°	54168	53617	61962	61332	69755	69047	77549	76762	85343	84477	93137	92192	
	90°	89363	80641	102221	92244	115079	103848	127937	115452	140795	127055	153653	138659	
18S-735	0°	106573	118645	121907	135718	137241	152790	152576	169862	-	-	-	-	10
	45°	62364	61793	71337	70684	80310	79576	89284	88467	-	-	-	-	
	90°	102885	92938	117689	106311	132492	119684	147296	133057	-	-	-	-	
18S2-635	0°	158377	177510	-	-	-	-	-	-	-	-	-	-	7
	45°	92679	92450	-	-	-	-	-	-	-	-	-	-	
	90°	152897	139048	-	-	-	-	-	-	-	-	-	-	
18S2-685	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
32S-685	0°	107279	119309	122714	136477	138150	153645	153586	170812	169022	187980	184458	205148	12
	45°	63615	63012	72769	72080	81922	81147	91076	90214	100229	99281	109382	108348	
	90°	106490	96096	121812	109923	137135	123751	152457	137579	167779	151406	183102	165234	
32S-735	0°	123511	137503	141283	157288	159054	177074	176826	196860	194597	216645	212369	236431	12
	45°	73241	72621	83780	83071	94318	93521	104857	103970	115395	114420	125933	124870	
	90°	122603	110750	140244	126686	157885	142622	175526	158558	193167	174494	210808	190430	
32S-835	0°	159406	177734	182342	203308	205279	228882	228215	254457	251151	280031	274087	305605	12
	45°	94527	93869	108128	107376	121729	120883	135330	134390	148931	147897	162532	161404	
	90°	158234	143153	181002	163752	203770	184350	226537	204949	249305	225547	272072	246146	
32S2-685	0°	213729	239548	244482	274016	275235	308484	-	-	-	-	-	-	9
	45°	126740	126516	144976	144720	163213	162925	-	-	-	-	-	-	
	90°	212157	192940	242685	220703	273212	248465	-	-	-	-	-	-	
50S-935	0°	222082	247505	254036	283119	285991	318733	317945	354346	349899	389960	381854	425574	12
	45°	131693	130719	150642	149528	169591	168337	188540	187147	207488	205956	226437	224765	
	90°	220449	199350	252169	228034	283888	256719	315608	285404	347327	314088	379047	342773	
50S-1000	0°	254033	283316	290585	324082	327136	364849	363688	405615	400240	446382	-	-	10
	45°	150640	149632	172315	171163	193990	192693	215665	214224	237340	235755	-	-	
	90°	252166	228193	288449	261028	324731	293863	361014	326697	397297	359532	-	-	
50S-1100	0°	307380	342677	351608	391986	395835	441294	-	-	-	-	-	-	9
	45°	182275	180984	208501	207025	234728	233067	-	-	-	-	-	-	
	90°	305121	276005	349023	315719	392925	355434	-	-	-	-	-	-	
50S2-935	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
50S2-1000	0°	-	-	-	-	-	-	-	-	-	-	-	-	5.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 80S-935 TO 80S2-1200

		Operating supply pressure (bar g)														MOP*
		3		3.5		4		4.5		5		5.5		6		
Model	Pos.	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
80S-935	0°	109976	122559	128616	143333	147256	164108	165896	184883	184536	205657	203176	226432	221816	247207	12
	45°	65215	64729	76268	75701	87322	86673	98375	97645	109429	108617	120482	119589	131535	130561	
	90°	109167	98713	127670	115446	146173	132178	164676	148911	183179	165644	201682	182377	220185	199109	
80S-1000	0°	125798	140292	147120	164073	168441	187853	189763	211633	211085	235414	232407	259194	253729	282975	12
	45°	74597	74095	87241	86654	99885	99214	112528	111773	125172	124333	137816	136892	150460	149452	
	90°	124873	112996	146038	132150	167203	151304	188368	170457	209533	189611	230698	208765	251863	227918	
80S-1100	0°	152216	169686	178015	198449	203814	227212	229614	255975	255413	284738	281212	313501	307012	342264	12
	45°	90263	89619	105562	104810	120861	120001	136160	135192	151458	150383	166757	165574	182056	180765	
	90°	151097	136671	176706	159838	202316	183005	227926	206172	253535	229339	279145	252505	304755	275672	
80S-1200	0°	181149	202115	211853	236375	242556	270634	273259	304893	303963	339153	334666	373412	365369	407672	10
	45°	107420	106746	125627	124840	143834	142934	162041	161028	180248	179122	198455	197216	216662	215310	
	90°	179818	162791	210295	190385	240773	217978	271250	245572	301728	273166	332206	300760	362683	328354	
80S2-935	0°	219325	245820	256500	287487	293676	329153	330852	370820	368027	412486	405203	454153	442378	495819	9
	45°	130058	129829	152103	151835	174148	173841	196193	195847	218238	217853	240283	239859	262328	261865	
	90°	217713	197992	254615	231552	291517	265112	328419	298672	365322	332231	402224	365791	439126	399351	
80S2-1000	0°	250969	281287	293509	328965	336048	376643	378587	424321	421126	471999	463665	519677	506204	567355	7
	45°	148823	148561	174049	173742	199274	198923	224500	224103	249725	249284	274951	274465	300176	299646	
	90°	249125	226559	291351	264961	333577	303362	375804	341764	418030	380165	460256	418567	502483	456969	
80S2-1100	0°	303613	340290	355075	397969	406537	455648	458000	513327	509462	571007	560924	628686	612386	686365	6
	45°	180041	179723	210558	210186	241074	240649	271591	271112	302108	301575	332625	332038	363142	362501	
	90°	301381	274082	352465	320539	403549	366996	454633	413453	505717	459910	556801	506366	607884	552823	
80S2-1200	0°	361480	405148	422750	473820	484021	542492	545291	611164	606561	679836	667831	748508	-	-	5.5
	45°	214356	213977	250689	250246	287022	286515	323355	322784	359688	359053	396021	395321	-	-	
	90°	358823	326321	419643	381632	480463	436943	541282	492254	602102	547565	662922	602876	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, MODELS 80S-935 TO 80S2-1200

		Operating supply pressure (bar g)												MOP*
		7		8		9		10		11		12		
Model	Position	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	OP	CL	(bar g)
80S-935	0°	259096	288756	296376	330306	333656	371855	370936	413404	408216	454954	445496	496503	12
	45°	153642	152505	175749	174449	197856	196394	219963	218338	242070	240282	264177	262226	
	90°	257191	232575	294197	266040	331203	299506	368209	332971	405215	366436	442221	399902	
80S-1000	0°	296372	330535	339016	378096	381659	425657	424303	473218	466946	520779	509590	568340	12
	45°	175747	174571	201034	199690	226322	224809	251609	249928	276897	275047	302184	300166	
	90°	294193	266225	336523	304533	378853	342840	421184	381147	463514	419454	505844	457762	
80S-1100	0°	358610	399790	410209	457317	461808	514843	513406	572369	565005	629895	616604	687421	12
	45°	212654	211148	243252	241530	273850	271912	304447	302294	335045	332676	365643	363059	
	90°	355974	322006	407193	368339	458413	414673	509632	461007	560852	507340	612071	553674	
80S-1200	0°	426776	476191	488183	544710	549589	613229	610996	681748	-	-	-	-	10
	45°	253076	251498	289490	287686	325904	323874	362318	360062	-	-	-	-	
	90°	423639	383542	484594	438729	545549	493917	606505	549105	-	-	-	-	
80S2-935	0°	516729	579152	591081	662485	665432	745818	-	-	-	-	-	-	9
	45°	306418	305877	350508	349889	394598	393901	-	-	-	-	-	-	
	90°	512931	466470	586735	533590	660540	600709	-	-	-	-	-	-	
80S2-1000	0°	591282	662711	-	-	-	-	-	-	-	-	-	-	7
	45°	350627	350008	-	-	-	-	-	-	-	-	-	-	
	90°	586935	533772	-	-	-	-	-	-	-	-	-	-	
80S2-1100	0°	-	-	-	-	-	-	-	-	-	-	-	-	6
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	
80S2-1200	0°	-	-	-	-	-	-	-	-	-	-	-	-	5.5
	45°	-	-	-	-	-	-	-	-	-	-	-	-	
	90°	-	-	-	-	-	-	-	-	-	-	-	-	

* MOP = Maximum Operating Pressure (bar g)

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1C-006A-085-CL TO 1.5C-1200-585-CL

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1C-006A-085-CL	12.0	63	36	59	101	20	20	133	35	39	166	48	57	198	61	75
0.1C-006A-100-CL	12.0	62	34	55	172	50	61	217	68	86	262	86	111	307	103	137
0.1C-006B-085-CL	12.0	113	61	91	-	-	-	-	-	-	-	-	-	-	-	-
0.1C-006B-100-CL	12.0	111	60	87	-	-	-	185	33	33	230	55	58	275	74	83
0.1C-006C-085-CL	12.0	149	80	117	-	-	-	-	-	-	-	-	-	-	-	-
0.1C-006C-100-CL	12.0	147	79	113	-	-	-	-	-	-	-	-	-	249	45	45
0.3C-008A-100-CL	12.0	198	111	183	-	-	-	-	-	-	-	-	-	290	50	50
0.3C-008A-135-CL	12.0	191	106	169	391	98	107	497	141	167	604	184	227	711	226	287
0.3C-008B-100-CL	12.0	304	153	182	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-008B-135-CL	12.0	297	148	168	-	-	-	499	57	57	606	117	117	713	169	177
0.3C-008C-100-CL	12.0	367	188	235	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-008C-135-CL	12.0	360	182	221	-	-	-	-	-	-	-	-	-	659	109	109
0.3C-0100-135-CL	12.0	586	319	478	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-0100-175-CL	9.0	577	312	461	-	-	-	684	18	18	863	119	119	1.043	221	221
0.3C-0100-235-CL	5.5	564	302	434	1.346	351	391	1.669	481	574	1.993	610	756	2.317	738	939
0.3C-0150-175-CL	10.0	732	428	777	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-0150-235-CL	6.0	719	419	750	-	-	-	1.354	355	396	1.678	485	579	2.002	613	761
0.9C-0200-235-CL	12.0	964	559	992	-	-	-	1.443	313	313	1.817	472	524	2.192	623	735
0.9C-0200-280-CL	9.0	949	548	962	1.984	540	618	2.516	752	918	3.047	962	1.218	3.578	1.172	1.517
0.9C-0200-335-CL	6.0	939	540	939	3.340	1.078	1.383	4.101	1.377	1.811	4.861	1.675	2.240	5.622	1.973	2.669
0.9C-0250-235-CL	12.0	1158	703	1388	-	-	-	-	-	-	-	-	-	1.796	463	513
0.9C-0250-280-CL	9.0	1143	692	1358	1.589	377	396	2.120	595	695	2.652	806	995	3.183	1.016	1.294
0.9C-0250-335-CL	6.0	1132	684	1336	2.945	922	1.160	3.705	1.222	1.589	4.466	1.520	2.018	5.227	1.819	2.446
0.9C-0350-280-CL	10.0	1837	1075	1946	-	-	-	-	-	-	-	-	-	2.598	541	541
0.9C-0350-335-CL	7.0	1826	1067	1924	-	-	-	3.120	775	836	3.881	1.084	1.265	4.642	1.388	1.693
0.9C-0350-385-CL	5.5	1813	1057	1897	3.800	1.052	1.219	4.805	1.452	1.785	5.809	1.849	2.352	6.814	2.245	2.918
0.9C-0350-435-CL	4.0	1803	1050	1876	5.449	1.707	2.148	6.731	2.212	2.871	8.014	2.716	3.594	-	-	-
0.9C-0350-485-CL	3.5	1797	1045	1863	7.308	2.439	3.196	8.902	3.064	4.095	-	-	-	-	-	-
0.9C-0400-280-CL	10.0	2173	1324	2634	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-335-CL	7.0	2162	1316	2612	-	-	-	2.435	450	450	3.196	806	878	3.957	1.115	1.307
0.9C-0400-385-CL	5.5	2149	1306	2585	3.115	772	833	4.119	1.180	1.399	5.124	1.579	1.965	6.129	1.975	2.532
0.9C-0400-435-CL	4.5	2139	1299	2564	4.763	1.436	1.762	6.046	1.943	2.485	7.329	2.447	3.208	8.612	2.950	3.931
0.9C-0400-485-CL	3.5	2132	1294	2551	6.623	2.170	2.810	8.217	2.796	3.709	-	-	-	-	-	-
0.9C-0700-335-CL	7.0	3076	1839	3500	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0700-385-CL	6.0	3063	1829	3473	-	-	-	3.235	401	401	4.240	951	967	5.245	1.373	1.534
0.9C-0700-435-CL	4.5	3053	1821	3452	3.879	764	764	5.162	1.339	1.487	6.445	1.857	2.210	7.727	2.366	2.933
0.9C-0700-485-CL	4.0	3046	1817	3439	5.738	1.573	1.812	7.333	2.210	2.711	8.928	2.840	3.609	-	-	-
1.5C-1100-385-CL	7.0	5705	3194	5167	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1100-435-CL	6.0	5692	3184	5141	-	-	-	-	-	-	7.378	848	848	9.000	1.762	1.762
1.5C-1100-485-CL	5.0	5684	3178	5124	6.485	344	344	8.501	1.481	1.481	10.517	2.496	2.617	12.534	3.329	3.754
1.5C-1100-535-CL	4.0	5682	3177	5121	9.104	1.821	1.821	11.558	2.930	3.204	14.012	3.926	4.587	-	-	-
1.5C-1100-585-CL	3.5	5656	3157	5067	11.937	3.086	3.417	14.870	4.270	5.071	-	-	-	-	-	-
1.5C-1200-385-CL	7.0	6617	3887	7096	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-435-CL	6.0	6604	3877	7069	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-485-CL	5.5	6596	3871	7053	-	-	-	6.580	429	429	8.597	1.566	1.566	10.613	2.554	2.702
1.5C-1200-535-CL	4.5	6594	3870	7049	7.184	769	769	9.637	2.131	2.152	12.091	3.166	3.535	14.544	4.155	4.918
1.5C-1200-585-CL	3.5	6568	3850	6996	10.016	2.299	2.365	12.950	3.514	4.019	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1C-006A-085-CL TO 1.5C-1200-585-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1C-006A-085-CL	12.0	63	36	59	231	73	94	263	86	112	296	99	130	361	124	167
0.1C-006A-100-CL	12.0	62	34	55	352	121	162	397	139	187	442	156	213	532	192	263
0.1C-006B-085-CL	12.0	113	61	91	199	40	40	232	55	59	264	69	77	329	95	114
0.1C-006B-100-CL	12.0	111	60	87	320	92	109	365	109	134	410	127	160	500	163	210
0.1C-006C-085-CL	12.0	149	80	117	-	-	-	-	-	-	238	38	38	303	72	75
0.1C-006C-100-CL	12.0	147	79	113	294	68	70	339	87	95	384	105	121	474	141	171
0.3C-008A-100-CL	12.0	198	111	183	348	80	83	407	105	116	466	128	149	583	175	215
0.3C-008A-135-CL	12.0	191	106	169	818	268	348	925	310	408	1032	352	468	1245	436	588
0.3C-008B-100-CL	12.0	304	153	182	-	-	-	-	-	-	467	39	39	585	105	105
0.3C-008B-135-CL	12.0	297	148	168	820	213	238	926	257	298	1033	299	358	1247	384	478
0.3C-008C-100-CL	12.0	367	188	235	-	-	-	-	-	-	-	-	-	531	37	37
0.3C-008C-135-CL	12.0	360	182	221	766	168	169	873	214	230	980	258	290	1194	344	410
0.3C-0100-135-CL	12.0	586	319	478	-	-	-	-	-	-	-	-	-	938	162	162
0.3C-0100-175-CL	9.0	577	312	461	1222	300	322	1402	374	423	1581	446	524	1941	589	727
0.3C-0100-235-CL	5.5	564	302	434	2641	865	1121	2964	993	1304	-	-	-	-	-	-
0.3C-0150-175-CL	10.0	732	428	777	907	144	144	1087	242	245	1266	318	347	1625	464	549
0.3C-0150-235-CL	6.0	719	419	750	2326	741	944	2649	869	1126	2973	996	1309	-	-	-
0.9C-0200-235-CL	12.0	964	559	992	2566	772	946	2940	920	1157	3315	1068	1369	4063	1362	1791
0.9C-0200-280-CL	9.0	949	548	962	4110	1380	1817	4641	1589	2116	5173	1797	2416	6236	2214	3015
0.9C-0200-335-CL	6.0	939	540	939	6383	2271	3098	7144	2569	3527	7904	2867	3955	-	-	-
0.9C-0250-235-CL	12.0	1158	703	1388	2171	615	724	2545	764	935	2920	912	1146	3668	1207	1568
0.9C-0250-280-CL	9.0	1143	692	1358	3715	1225	1594	4246	1434	1894	4778	1642	2193	5841	2059	2792
0.9C-0250-335-CL	6.0	1132	684	1336	5988	2117	2875	6749	2414	3304	7509	2712	3733	-	-	-
0.9C-0350-280-CL	10.0	1837	1075	1946	3129	779	841	3661	996	1141	4192	1209	1440	5255	1631	2039
0.9C-0350-335-CL	7.0	1826	1067	1924	5402	1689	2122	6163	1989	2551	6924	2288	2980	8446	2885	3837
0.9C-0350-385-CL	5.5	1813	1057	1897	7819	2640	3484	8824	3034	4051	-	-	-	-	-	-
0.9C-0350-435-CL	4.0	1803	1050	1876	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0350-485-CL	3.5	1797	1045	1863	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-280-CL	10.0	2173	1324	2634	2444	455	455	2976	714	754	3507	933	1054	4570	1359	1653
0.9C-0400-335-CL	7.0	2162	1316	2612	4717	1418	1736	5478	1719	2165	6239	2019	2594	7760	2617	3451
0.9C-0400-385-CL	5.5	2149	1306	2585	7134	2370	3098	8139	2765	3664	-	-	-	-	-	-
0.9C-0400-435-CL	4.5	2139	1299	2564	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-485-CL	3.5	2132	1294	2551	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0700-335-CL	7.0	3076	1839	3500	3833	738	738	4594	1104	1167	5355	1418	1596	6876	2028	2453
0.9C-0700-385-CL	6.0	3063	1829	3473	6250	1779	2100	7254	2179	2666	8259	2576	3233	-	-	-
0.9C-0700-435-CL	4.5	3053	1821	3452	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0700-485-CL	4.0	3046	1817	3439	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1100-385-CL	7.0	5705	3194	5167	7131	709	709	8402	1425	1425	9672	2126	2141	12214	3199	3573
1.5C-1100-435-CL	6.0	5692	3184	5141	10622	2540	2676	12244	3212	3590	13866	3867	4505	-	-	-
1.5C-1100-485-CL	5.0	5684	3178	5124	14550	4142	4890	-	-	-	-	-	-	-	-	-
1.5C-1100-535-CL	4.0	5682	3177	5121	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1100-585-CL	3.5	5656	3157	5067	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-385-CL	7.0	6617	3887	7096	-	-	-	-	-	-	7752	1089	1089	10293	2418	2522
1.5C-1200-435-CL	6.0	6604	3877	7069	8701	1624	1624	10323	2432	2539	11945	3106	3453	-	-	-
1.5C-1200-485-CL	5.5	6596	3871	7053	12630	3385	3839	14646	4195	4975	-	-	-	-	-	-
1.5C-1200-535-CL	4.5	6594	3870	7049	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-585-CL	3.5	6568	3850	6996	-	-	-	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1C-006A-085-CL TO 1.5C-1200-585-CL

					Operating supply pressure (bar g)								
					9			10			12		
Model	MOP (bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1C-006A-085-CL	12.0	63	36	59	491	175	240	556	201	277	686	252	350
0.1C-006A-100-CL	12.0	62	34	55	712	262	365	802	297	416	982	367	517
0.1C-006B-085-CL	12.0	113	61	91	459	147	187	524	172	224	654	223	297
0.1C-006B-100-CL	12.0	111	60	87	680	233	312	770	269	362	950	339	464
0.1C-006C-085-CL	12.0	149	80	117	433	124	148	498	150	185	628	202	258
0.1C-006C-100-CL	12.0	147	79	113	654	212	273	744	247	324	924	318	425
0.3C-008A-100-CL	12.0	198	111	183	817	268	347	935	314	413	1169	406	545
0.3C-008A-135-CL	12.0	191	106	169	1673	603	829	1886	687	950	2314	854	1191
0.3C-008B-100-CL	12.0	304	153	182	819	213	237	936	261	303	1171	354	436
0.3C-008B-135-CL	12.0	297	148	168	1674	553	719	1888	637	840	2315	804	1081
0.3C-008C-100-CL	12.0	367	188	235	766	168	169	883	218	235	1117	314	367
0.3C-008C-135-CL	12.0	360	182	221	1621	514	651	1835	598	772	2262	766	1012
0.3C-0100-135-CL	12.0	586	319	478	1366	359	402	1579	445	523	2007	615	764
0.3C-0100-175-CL	9.0	577	312	461	2659	872	1131	-	-	-	-	-	-
0.3C-0100-235-CL	5.5	564	302	434	-	-	-	-	-	-	-	-	-
0.3C-0150-175-CL	10.0	732	428	777	2344	748	954	2703	890	1156	-	-	-
0.3C-0150-235-CL	6.0	719	419	750	-	-	-	-	-	-	-	-	-
0.9C-0200-235-CL	12.0	964	559	992	5561	1949	2635	6310	2243	3057	7807	2829	3901
0.9C-0200-280-CL	9.0	949	548	962	8362	3046	4213	-	-	-	-	-	-
0.9C-0200-335-CL	6.0	939	540	939	-	-	-	-	-	-	-	-	-
0.9C-0250-235-CL	12.0	1158	703	1388	5166	1795	2412	5915	2088	2834	7412	2674	3678
0.9C-0250-280-CL	9.0	1143	692	1358	7967	2891	3990	-	-	-	-	-	-
0.9C-0250-335-CL	6.0	1132	684	1336	-	-	-	-	-	-	-	-	-
0.9C-0350-280-CL	10.0	1837	1075	1946	7381	2468	3237	8444	2885	3837	-	-	-
0.9C-0350-335-CL	7.0	1826	1067	1924	-	-	-	-	-	-	-	-	-
0.9C-0350-385-CL	5.5	1813	1057	1897	-	-	-	-	-	-	-	-	-
0.9C-0350-435-CL	4.0	1803	1050	1876	-	-	-	-	-	-	-	-	-
0.9C-0350-485-CL	3.5	1797	1045	1863	-	-	-	-	-	-	-	-	-
0.9C-0400-280-CL	10.0	2173	1324	2634	6696	2198	2851	7759	2616	3450	-	-	-
0.9C-0400-335-CL	7.0	2162	1316	2612	-	-	-	-	-	-	-	-	-
0.9C-0400-385-CL	5.5	2149	1306	2585	-	-	-	-	-	-	-	-	-
0.9C-0400-435-CL	4.5	2139	1299	2564	-	-	-	-	-	-	-	-	-
0.9C-0400-485-CL	3.5	2132	1294	2551	-	-	-	-	-	-	-	-	-
0.9C-0700-335-CL	7.0	3076	1839	3500	-	-	-	-	-	-	-	-	-
0.9C-0700-385-CL	6.0	3063	1829	3473	-	-	-	-	-	-	-	-	-
0.9C-0700-435-CL	4.5	3053	1821	3452	-	-	-	-	-	-	-	-	-
0.9C-0700-485-CL	4.0	3046	1817	3439	-	-	-	-	-	-	-	-	-
1.5C-1100-385-CL	7.0	5705	3194	5167	-	-	-	-	-	-	-	-	-
1.5C-1100-435-CL	6.0	5692	3184	5141	-	-	-	-	-	-	-	-	-
1.5C-1100-485-CL	5.0	5684	3178	5124	-	-	-	-	-	-	-	-	-
1.5C-1100-535-CL	4.0	5682	3177	5121	-	-	-	-	-	-	-	-	-
1.5C-1100-585-CL	3.5	5656	3157	5067	-	-	-	-	-	-	-	-	-
1.5C-1200-385-CL	7.0	6617	3887	7096	-	-	-	-	-	-	-	-	-
1.5C-1200-435-CL	6.0	6604	3877	7069	-	-	-	-	-	-	-	-	-
1.5C-1200-485-CL	5.5	6596	3871	7053	-	-	-	-	-	-	-	-	-
1.5C-1200-535-CL	4.5	6594	3870	7049	-	-	-	-	-	-	-	-	-
1.5C-1200-585-CL	3.5	6568	3850	6996	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 3C-2000-385-CL TO 14C-8300-985-CL

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3C-2000-385-CL	9.0	9735	5856	11307	-	-	-	-	-	-	-	-	-	-	-	-
3C-2000-435-CL	7.0	9713	5840	11264	-	-	-	-	-	-	-	-	-	12153	2466	2466
3C-2000-485-CL	6.0	9700	5830	11236	-	-	-	11328	2001	2001	14665	3615	3882	18003	4977	5763
3C-2000-535-CL	5.0	9697	5828	11230	12326	2564	2564	16387	4324	4853	20449	5956	7142	24510	7568	9431
3C-2000-585-CL	4.0	9654	5796	11142	17014	4578	5206	21870	6522	7943	26726	8443	10680	-	-	-
6C-2500-485-CL	9.0	13894	8477	16899	-	-	-	-	-	-	-	-	-	17299	3838	3880
6C-2500-535-CL	7.0	13891	8474	16892	-	-	-	15411	2816	2816	20159	5058	5492	24907	6986	8168
6C-2500-585-CL	6.0	13840	8437	16789	16144	3229	3229	21821	5740	6428	27497	8022	9628	33174	10273	12828
6C-2500-635-CL	5.5	13785	8396	16677	22114	5859	6594	28802	8541	10364	35491	11188	14134	42180	13823	17904
6C-2500-735-CL	4.0	13662	8305	16425	35522	11200	14151	44483	14727	19202	53444	18245	24253	-	-	-
6C-3800-535-CL	9.0	18816	11838	25340	-	-	-	-	-	-	-	-	-	16493	2592	2592
6C-3800-585-CL	7.0	18766	11801	25237	-	-	-	13407	853	853	19084	4053	4053	24761	6490	7252
6C-3800-635-CL	6.0	18711	11761	25125	13700	1018	1018	20389	4663	4788	27078	7429	8558	33766	10101	12328
6C-3800-735-CL	4.5	18588	11671	24872	27108	7442	8575	36070	11014	13626	45031	14550	18677	53992	18073	23728
14C-5100-635-CL	10.0	22483	14170	30454	-	-	-	19303	2959	2959	26614	6581	7079	33924	9554	11200
14C-5100-735-CL	7.0	22348	14071	30178	26647	6595	7098	36442	10561	12619	46236	14444	18139	56030	18304	23660
14C-5100-785-CL	6.0	22274	14017	30025	34777	9895	11680	45949	14330	17977	57121	18733	24274	68293	23121	30571
14C-5100-835-CL	6.0	22194	13959	29862	43441	13340	16564	56082	18324	23689	68722	23289	30813	81363	28245	37938
14C-5100-885-CL	5.0	22110	13897	29689	52640	16969	21749	66840	22551	29752	81040	28118	37756	95240	33680	45759
14C-5100-935-CL	4.5	22020	13832	29506	62374	20796	27235	78224	27014	36169	94073	33224	45102	109923	39429	54036
14C-5400-635-CL	10.0	29197	17959	36493	-	-	-	-	-	-	-	-	-	-	-	-
14C-5400-735-CL	7.0	29062	17861	36217	-	-	-	30427	5312	5312	40221	10021	10832	50016	14004	16353
14C-5400-785-CL	7.0	28988	17806	36064	28762	4374	4374	39934	9902	10671	51107	14442	16968	62279	18889	23265
14C-5400-835-CL	6.0	28908	17748	35901	37427	8847	9257	50067	14024	16382	62708	19059	23507	75348	24052	30631
14C-5400-885-CL	5.5	28824	17686	35728	46626	12639	14442	60826	18313	22446	75025	23924	30449	89225	29512	38453
14C-5400-935-CL	5.0	28734	17620	35545	56360	16538	19928	72209	22815	28862	88059	29053	37795	103909	35277	46729
14C-8300-735-CL	7.0	37471	23145	47494	-	-	-	-	-	-	-	-	-	38785	7003	7003
14C-8300-785-CL	7.0	37396	23091	47341	-	-	-	28704	1321	1321	39876	7618	7618	51048	12812	13915
14C-8300-835-CL	6.0	37317	23032	47178	-	-	-	38836	7032	7032	51477	12990	14157	64118	18116	21282
14C-8300-885-CL	5.5	37232	22971	47005	35395	5093	5093	49595	12209	13096	63795	17986	21100	77994	23639	29103
14C-8300-935-CL	5.0	37143	22905	46822	45129	10310	10579	60979	16855	19512	76828	23177	28446	92678	29442	37379

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 3C-2000-385-CL TO 14C-8300-985-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3C-2000-385-CL	9.0	9735	5856	11307	-	-	-	11163	1908	1908	13266	3020	3094	17473	4763	5464
3C-2000-435-CL	7.0	9713	5840	11264	14838	3687	3980	17523	4784	5493	20208	5860	7006	25577	7989	10033
3C-2000-485-CL	6.0	9700	5830	11236	21340	6311	7644	24678	7634	9526	28015	8951	11407	-	-	-
3C-2000-535-CL	5.0	9697	5828	11230	28571	9170	11720	-	-	-	-	-	-	-	-	-
3C-2000-585-CL	4.0	9654	5796	11142	-	-	-	-	-	-	-	-	-	-	-	-
6C-2500-485-CL	9.0	13894	8477	16899	21201	5487	6079	25103	7065	8279	29005	8622	10478	36809	11708	14876
6C-2500-535-CL	7.0	13891	8474	16892	29655	8879	10844	34403	10758	13520	39150	12630	16196	48646	16363	21548
6C-2500-585-CL	6.0	13840	8437	16789	38851	12512	16027	44528	14745	19227	50205	16975	22427	-	-	-
6C-2500-635-CL	5.5	13785	8396	16677	48868	16450	21674	55557	19074	25444	-	-	-	-	-	-
6C-2500-735-CL	4.0	13662	8305	16425	-	-	-	-	-	-	-	-	-	-	-	-
6C-3800-535-CL	9.0	18816	11838	25340	21241	5030	5269	25989	6989	7945	30737	8896	10621	40233	12659	15973
6C-3800-585-CL	7.0	18766	11801	25237	30438	8776	10452	36114	11032	13652	41791	13274	16851	53145	17740	23250
6C-3800-635-CL	6.0	18711	11761	25125	40455	12747	16098	47144	15382	19868	53832	18010	23638	-	-	-
6C-3800-735-CL	4.5	18588	11671	24872	-	-	-	-	-	-	-	-	-	-	-	-
14C-5100-635-CL	10.0	22483	14170	30454	41235	12465	15320	48545	15356	19441	55856	18235	23561	70476	23977	31802
14C-5100-735-CL	7.0	22348	14071	30178	65824	22152	29180	75619	25993	34700	85413	29833	40221	105001	37502	51261
14C-5100-785-CL	6.0	22274	14017	30025	79465	27501	36868	90637	31879	43165	101809	36252	49462	-	-	-
14C-5100-835-CL	6.0	22194	13959	29862	94004	33197	45063	106644	38145	52188	119285	43094	59312	-	-	-
14C-5100-885-CL	5.0	22110	13897	29689	109439	39239	53763	-	-	-	-	-	-	-	-	-
14C-5100-935-CL	4.5	22020	13832	29506	-	-	-	-	-	-	-	-	-	-	-	-
14C-5400-635-CL	10.0	29197	17959	36493	35220	7889	8013	42531	10973	12134	49841	13933	16254	64462	19754	24495
14C-5400-735-CL	7.0	29062	17861	36217	59810	17910	21873	69604	21786	27393	79398	25647	32914	98987	33346	43955
14C-5400-785-CL	7.0	28988	17806	36064	73451	23304	29562	84623	27703	35859	95795	32093	42156	118139	40857	54750
14C-5400-835-CL	6.0	28908	17748	35901	87989	29026	37756	100630	33992	44881	113270	38948	52005	-	-	-
14C-5400-885-CL	5.5	28824	17686	35728	103425	35088	46456	117625	40655	54460	-	-	-	-	-	-
14C-5400-935-CL	5.0	28734	17620	35545	119758	41492	55662	-	-	-	-	-	-	-	-	-
14C-8300-735-CL	7.0	37471	23145	47494	48579	11784	12524	58373	15804	18044	68167	19734	23564	87756	27500	34605
14C-8300-785-CL	7.0	37396	23091	47341	62220	17353	20212	73392	21814	26509	84564	26239	32806	106908	35045	45400
14C-8300-835-CL	6.0	37317	23032	47178	76758	23149	28407	89399	28149	35531	102040	33129	42656	-	-	-
14C-8300-885-CL	5.5	37232	22971	47005	92194	29252	37107	106394	34843	45110	-	-	-	-	-	-
14C-8300-935-CL	5.0	37143	22905	46822	108527	35681	46313	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 3C-2000-385-CL TO 14C-8300-985-CL

					Operating supply pressure (bar g)								
	MOP				9			10			12		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3C-2000-385-CL	9.0	9735	5856	11307	25885	8111	10206	-	-	-	-	-	-
3C-2000-435-CL	7.0	9713	5840	11264	-	-	-	-	-	-	-	-	-
3C-2000-485-CL	6.0	9700	5830	11236	-	-	-	-	-	-	-	-	-
3C-2000-535-CL	5.0	9697	5828	11230	-	-	-	-	-	-	-	-	-
3C-2000-585-CL	4.0	9654	5796	11142	-	-	-	-	-	-	-	-	-
6C-2500-485-CL	9.0	13894	8477	16899	52416	17842	23673	-	-	-	-	-	-
6C-2500-535-CL	7.0	13891	8474	16892	-	-	-	-	-	-	-	-	-
6C-2500-585-CL	6.0	13840	8437	16789	-	-	-	-	-	-	-	-	-
6C-2500-635-CL	5.5	13785	8396	16677	-	-	-	-	-	-	-	-	-
6C-2500-735-CL	4.0	13662	8305	16425	-	-	-	-	-	-	-	-	-
6C-3800-535-CL	9.0	18816	11838	25340	59224	20127	26677	-	-	-	-	-	-
6C-3800-585-CL	7.0	18766	11801	25237	-	-	-	-	-	-	-	-	-
6C-3800-635-CL	6.0	18711	11761	25125	-	-	-	-	-	-	-	-	-
6C-3800-735-CL	4.5	18588	11671	24872	-	-	-	-	-	-	-	-	-
14C-5100-635-CL	10.0	22483	14170	30454	99718	35434	48284	114339	41157	56525	-	-	-
14C-5100-735-CL	7.0	22348	14071	30178	-	-	-	-	-	-	-	-	-
14C-5100-785-CL	6.0	22274	14017	30025	-	-	-	-	-	-	-	-	-
14C-5100-835-CL	6.0	22194	13959	29862	-	-	-	-	-	-	-	-	-
14C-5100-885-CL	5.0	22110	13897	29689	-	-	-	-	-	-	-	-	-
14C-5100-935-CL	4.5	22020	13832	29506	-	-	-	-	-	-	-	-	-
14C-5400-635-CL	10.0	29197	17959	36493	93704	31271	40977	108325	37009	49218	-	-	-
14C-5400-735-CL	7.0	29062	17861	36217	-	-	-	-	-	-	-	-	-
14C-5400-785-CL	7.0	28988	17806	36064	-	-	-	-	-	-	-	-	-
14C-5400-835-CL	6.0	28908	17748	35901	-	-	-	-	-	-	-	-	-
14C-5400-885-CL	5.5	28824	17686	35728	-	-	-	-	-	-	-	-	-
14C-5400-935-CL	5.0	28734	17620	35545	-	-	-	-	-	-	-	-	-
14C-8300-735-CL	7.0	37471	23145	47494	-	-	-	-	-	-	-	-	-
14C-8300-785-CL	7.0	37396	23091	47341	-	-	-	-	-	-	-	-	-
14C-8300-835-CL	6.0	37317	23032	47178	-	-	-	-	-	-	-	-	-
14C-8300-885-CL	5.5	37232	22971	47005	-	-	-	-	-	-	-	-	-
14C-8300-935-CL	5.0	37143	22905	46822	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 18C-9600-835-CL TO 50C-15600-1450-CL

					Operating supply pressure (bar g)											
					3			3.5			4			4.5		
Model	MOP (bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18C-9600-835-CL	7.0	60605	35385	63670	-	-	-	-	-	-	-	-	-	-	-	-
18C-9600-935-CL	6.0	60405	35236	63260	-	-	-	60748	3533	3533	78975	13806	13806	97202	23001	24080
18C-9600-1000-CL	5.5	60263	35130	62969	57993	1980	1980	78842	13732	13732	99691	24055	25483	120541	32621	37234
18C-9600-1100-CL	4.5	60026	34953	62483	83825	16540	16540	109053	27943	30759	134281	38146	44979	159508	48188	59198
18C-9600-1200-CL	4.0	59766	34760	61951	112118	29198	32487	142141	41287	49409	172164	53199	66331	-	-	-
18C-9600-1300-CL	3.5	59484	34549	61373	142870	41577	49820	178106	55546	69680	-	-	-	-	-	-
18C-9800-835-CL	9.0	76919	44620	79020	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-935-CL	7.0	76719	44471	78611	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-1000-CL	6.0	76577	44366	78320	-	-	-	-	-	-	-	-	-	105253	19444	19444
18C-9800-1100-CL	5.0	76339	44189	77834	-	-	-	93765	12969	12969	118992	26730	27189	144220	37352	41408
18C-9800-1200-CL	4.0	76079	43995	77302	96829	14697	14697	126853	30133	31619	156876	42497	48541	-	-	-
18C-9800-1300-CL	3.5	75797	43784	76723	127582	30443	32030	162818	44896	51890	-	-	-	-	-	-
18C-10500-935-CL	7.0	86028	49417	85409	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-1000-CL	6.0	85886	49311	85118	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-1100-CL	5.0	85648	49133	84632	-	-	-	86993	2922	2922	112221	17142	17142	137449	30847	31361
18C-10500-1200-CL	4.0	85388	48939	84100	90058	4650	4650	120081	21572	21572	150105	36292	38494	-	-	-
18C-10500-1300-CL	3.5	85106	48727	83522	120811	21983	21983	156047	38776	41843	-	-	-	-	-	-
18C-11000-935-CL	7.0	96334	57101	106518	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-1000-CL	6.0	96192	56996	106227	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-1100-CL	5.5	95954	56820	105741	-	-	-	-	-	-	-	-	-	116427	19512	19512
18C-11000-1200-CL	4.5	95694	56627	105209	-	-	-	99059	9723	9723	129082	26645	26645	159105	40044	43567
18C-11000-1300-CL	4.0	95412	56417	104630	99789	10134	10134	135024	29758	29994	170260	44622	49854	-	-	-
32C-12000-1100-CL	7.0	110652	62550	103744	-	-	-	-	-	-	-	-	-	156978	26066	26066
32C-12000-1200-CL	6.0	110347	62321	103119	-	-	-	136590	14574	14574	171835	34439	34439	207079	50760	54304
32C-12000-1300-CL	5.0	110015	62071	102440	-	-	-	178810	38371	38371	220173	56186	61685	261537	72964	84999
32C-15000-1100-CL	7.0	128688	74397	130631	-	-	-	-	-	-	-	-	-	-	-	-
32C-15000-1200-CL	6.0	128383	74170	130006	-	-	-	-	-	-	-	-	-	180302	34106	34106
32C-15000-1300-CL	5.5	128051	73921	129327	-	-	-	152033	18172	18172	193396	41486	41486	234760	59372	64800
50C-15400-1100-CL	7.0	139773	77502	122151	-	-	-	-	-	-	-	-	-	167568	11091	11091
50C-15400-1200-CL	7.0	139434	77246	121457	-	-	-	-	-	-	-	-	-	223236	42467	42467
50C-15400-1300-CL	6.0	139066	76969	120702	-	-	-	191826	24763	24763	237785	50668	50668	283744	70781	76572
50C-15400-1450-CL	5.0	138458	76510	119457	212052	36164	36164	269229	64712	68391	326406	88224	100618	383584	111172	132845
50C-15600-1100-CL	7.0	146068	82248	135045	-	-	-	-	-	-	-	-	-	-	-	-
50C-15600-1200-CL	7.0	145729	81993	134350	-	-	-	-	-	-	-	-	-	210395	35229	35229
50C-15600-1300-CL	6.0	145361	81715	133596	-	-	-	178985	17526	17526	224944	43430	43430	270903	65417	69334
50C-15600-1450-CL	5.0	144753	81257	132351	199211	28926	28926	256388	59230	61153	313565	83016	93380	370742	106039	125607

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 18C-9600-835-CL TO 50C-15600-1450-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18C-9600-835-CL	7.0	60605	35385	63670	-	-	-	93431	21378	21955	107968	27497	30148	137042	39250	46535
18C-9600-935-CL	6.0	60405	35236	63260	115429	30548	34353	133656	37896	44627	151883	45164	54900	-	-	-
18C-9600-1000-CL	5.5	60263	35130	62969	141390	40988	48986	162240	49271	60737	-	-	-	-	-	-
18C-9600-1100-CL	4.5	60026	34953	62483	-	-	-	-	-	-	-	-	-	-	-	-
18C-9600-1200-CL	4.0	59766	34760	61951	-	-	-	-	-	-	-	-	-	-	-	-
18C-9600-1300-CL	3.5	59484	34549	61373	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-835-CL	9.0	76919	44620	79020	-	-	-	-	-	-	92680	12358	12358	121753	27943	28745
18C-9800-935-CL	7.0	76719	44471	78611	100141	16563	16563	118368	26452	26837	136595	34214	37110	173049	49004	57657
18C-9800-1000-CL	6.0	76577	44366	78320	126102	29813	31196	146951	38469	42947	167801	46898	54699	-	-	-
18C-9800-1100-CL	5.0	76339	44189	77834	169448	47559	55627	-	-	-	-	-	-	-	-	-
18C-9800-1200-CL	4.0	76079	43995	77302	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-1300-CL	3.5	75797	43784	76723	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-935-CL	7.0	86028	49417	85409	-	-	-	111597	16790	16790	129824	27063	27063	166278	42994	47610
18C-10500-1000-CL	6.0	85886	49311	85118	119331	21149	21149	140180	32049	32900	161030	40837	44652	-	-	-
18C-10500-1100-CL	5.0	85648	49133	84632	162677	41515	45580	-	-	-	-	-	-	-	-	-
18C-10500-1200-CL	4.0	85388	48939	84100	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-1300-CL	3.5	85106	48727	83522	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-935-CL	7.0	96334	57101	106518	-	-	-	-	-	-	108802	15214	15214	145256	34239	35761
18C-11000-1000-CL	6.0	96192	56996	106227	-	-	-	119158	21051	21051	140007	31973	32803	-	-	-
18C-11000-1100-CL	5.5	95954	56820	105741	141654	32690	33731	166882	43241	47951	-	-	-	-	-	-
18C-11000-1200-CL	4.5	95694	56627	105209	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-1300-CL	4.0	95412	56417	104630	-	-	-	-	-	-	-	-	-	-	-	-
32C-12000-1100-CL	7.0	110652	62550	103744	186593	41996	42758	216208	54554	59450	245824	66634	76142	305054	90343	109527
32C-12000-1200-CL	6.0	110347	62321	103119	242324	65221	74170	277568	79387	94035	312813	93428	113900	-	-	-
32C-12000-1300-CL	5.0	110015	62071	102440	302900	89486	108313	-	-	-	-	-	-	-	-	-
32C-15000-1100-CL	7.0	128688	74397	130631	159816	22559	22559	189431	39251	39251	219046	52825	55944	278277	77063	89328
32C-15000-1200-CL	6.0	128383	74170	130006	215546	51347	53971	250791	65944	73836	286035	80179	93701	-	-	-
32C-15000-1300-CL	5.5	128051	73921	129327	276123	76198	88114	317486	92750	111428	-	-	-	-	-	-
50C-15400-1100-CL	7.0	139773	77502	122151	200474	29638	29638	233380	48185	48185	266285	63467	66731	332097	90523	103825
50C-15400-1200-CL	7.0	139434	77246	121457	262397	61814	64540	301557	78118	86612	340718	94001	108684	419039	125277	152829
50C-15400-1300-CL	6.0	139066	76969	120702	329704	89556	102476	375663	108006	128381	421622	126301	154285	-	-	-
50C-15400-1450-CL	5.0	138458	76510	119457	440761	133887	165072	-	-	-	-	-	-	-	-	-
50C-15600-1100-CL	7.0	146068	82248	135045	187633	22400	22400	220538	40947	40947	253444	57951	59494	319256	85328	96587
50C-15600-1200-CL	7.0	145729	81993	134350	249555	56242	57302	288716	72842	79374	327876	88818	101446	406198	120172	145591
50C-15600-1300-CL	6.0	145361	81715	133596	316863	84356	95239	362822	102873	121143	408781	121200	147047	-	-	-
50C-15600-1450-CL	5.0	144753	81257	132351	427920	128797	157834	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO CLOSE. MODELS 18C-9600-835-CL TO 50C-15600-1450-CL

					Operating supply pressure (bar g)								
					9			10			12		
Model	MOP (bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18C-9600-835-CL	7.0	60605	35385	63670	-	-	-	-	-	-	-	-	-
18C-9600-935-CL	6.0	60405	35236	63260	-	-	-	-	-	-	-	-	-
18C-9600-1000-CL	5.5	60263	35130	62969	-	-	-	-	-	-	-	-	-
18C-9600-1100-CL	4.5	60026	34953	62483	-	-	-	-	-	-	-	-	-
18C-9600-1200-CL	4.0	59766	34760	61951	-	-	-	-	-	-	-	-	-
18C-9600-1300-CL	3.5	59484	34549	61373	-	-	-	-	-	-	-	-	-
18C-9800-835-CL	9.0	76919	44620	79020	179900	51742	61519	-	-	-	-	-	-
18C-9800-935-CL	7.0	76719	44471	78611	-	-	-	-	-	-	-	-	-
18C-9800-1000-CL	6.0	76577	44366	78320	-	-	-	-	-	-	-	-	-
18C-9800-1100-CL	5.0	76339	44189	77834	-	-	-	-	-	-	-	-	-
18C-9800-1200-CL	4.0	76079	43995	77302	-	-	-	-	-	-	-	-	-
18C-9800-1300-CL	3.5	75797	43784	76723	-	-	-	-	-	-	-	-	-
18C-10500-935-CL	7.0	86028	49417	85409	-	-	-	-	-	-	-	-	-
18C-10500-1000-CL	6.0	85886	49311	85118	-	-	-	-	-	-	-	-	-
18C-10500-1100-CL	5.0	85648	49133	84632	-	-	-	-	-	-	-	-	-
18C-10500-1200-CL	4.0	85388	48939	84100	-	-	-	-	-	-	-	-	-
18C-10500-1300-CL	3.5	85106	48727	83522	-	-	-	-	-	-	-	-	-
18C-11000-935-CL	7.0	96334	57101	106518	-	-	-	-	-	-	-	-	-
18C-11000-1000-CL	6.0	96192	56996	106227	-	-	-	-	-	-	-	-	-
18C-11000-1100-CL	5.5	95954	56820	105741	-	-	-	-	-	-	-	-	-
18C-11000-1200-CL	4.5	95694	56627	105209	-	-	-	-	-	-	-	-	-
18C-11000-1300-CL	4.0	95412	56417	104630	-	-	-	-	-	-	-	-	-
32C-12000-1100-CL	7.0	110652	62550	103744	-	-	-	-	-	-	-	-	-
32C-12000-1200-CL	6.0	110347	62321	103119	-	-	-	-	-	-	-	-	-
32C-12000-1300-CL	5.0	110015	62071	102440	-	-	-	-	-	-	-	-	-
32C-15000-1100-CL	7.0	128688	74397	130631	-	-	-	-	-	-	-	-	-
32C-15000-1200-CL	6.0	128383	74170	130006	-	-	-	-	-	-	-	-	-
32C-15000-1300-CL	5.5	128051	73921	129327	-	-	-	-	-	-	-	-	-
50C-15400-1100-CL	7.0	139773	77502	122151	-	-	-	-	-	-	-	-	-
50C-15400-1200-CL	7.0	139434	77246	121457	-	-	-	-	-	-	-	-	-
50C-15400-1300-CL	6.0	139066	76969	120702	-	-	-	-	-	-	-	-	-
50C-15400-1450-CL	5.0	138458	76510	119457	-	-	-	-	-	-	-	-	-
50C-15600-1100-CL	7.0	146068	82248	135045	-	-	-	-	-	-	-	-	-
50C-15600-1200-CL	7.0	145729	81993	134350	-	-	-	-	-	-	-	-	-
50C-15600-1300-CL	6.0	145361	81715	133596	-	-	-	-	-	-	-	-	-
50C-15600-1450-CL	5.0	144753	81257	132351	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 0.1C-006A-085-OP TO 1.5C-1200-585-OP

					Operating supply pressure (bar g)											
					3			3.5			4			4.5		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
0.1C-006A-085-OP	12.0	116	28	29	52	27	35	69	40	71	87	53	107	104	66	143
0.1C-006A-100-OP	12.0	113	26	27	90	55	114	115	73	164	139	91	214	163	109	264
0.1C-006B-085-OP	12.0	206	44	45	-	-	-	-	-	-	-	-	-	84	32	32
0.1C-006B-100-OP	12.0	203	43	43	70	3	3	94	47	53	119	66	103	143	84	153
0.1C-006C-085-OP	12.0	272	57	57	-	-	-	-	-	-	-	-	-	-	-	-
0.1C-006C-100-OP	12.0	268	55	55	-	-	-	-	-	-	103	23	23	127	63	73
0.3C-008A-100-OP	12.0	368	89	94	-	-	-	-	-	-	112	8	8	144	70	73
0.3C-008A-135-OP	12.0	355	83	87	199	112	185	257	155	303	315	197	422	372	240	540
0.3C-008B-100-OP	12.0	565	94	94	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-008B-135-OP	12.0	553	87	87	-	-	-	245	61	61	303	152	180	361	197	298
0.3C-008C-100-OP	12.0	682	122	122	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-008C-135-OP	12.0	669	114	114	-	-	-	-	-	-	270	37	37	328	156	156
0.3C-0100-135-OP	12.0	1089	243	246	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-0100-175-OP	10.0	1073	236	238	-	-	-	-	-	-	426	151	151	523	271	350
0.3C-0100-235-OP	6.0	1049	224	224	687	395	686	863	526	1045	1038	654	1405	1214	782	1764
0.3C-0150-175-OP	12.0	1358	356	398	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-0150-235-OP	6.0	1335	346	385	517	266	336	692	399	696	868	529	1055	1043	657	1414
0.9C-0200-235-OP	12.0	1722	433	471	563	170	170	766	410	585	969	563	1001	1171	713	1416
0.9C-0200-280-OP	9.0	1695	422	456	1059	630	1186	1347	842	1776	1635	1051	2365	1923	1261	2955
0.9C-0200-335-OP	6.0	1675	413	444	1794	1167	2690	2206	1466	3535	2618	1764	4379	3030	2062	5223
0.9C-0250-235-OP	12.0	2079	578	672	-	-	-	-	-	-	754	401	562	957	554	978
0.9C-0250-280-OP	9.0	2052	567	657	845	470	747	1133	685	1337	1421	896	1927	1709	1105	2517
0.9C-0250-335-OP	6.0	2032	559	646	1579	1011	2252	1992	1310	3096	2404	1609	3940	2816	1908	4785
0.9C-0350-280-OP	10.0	3284	842	928	-	-	-	-	-	-	1090	416	416	1378	729	1006
0.9C-0350-335-OP	7.0	3264	834	917	1249	628	741	1661	943	1585	2073	1250	2430	2485	1553	3274
0.9C-0350-385-OP	5.5	3240	824	903	2029	1218	2340	2573	1617	3455	3118	2014	4570	3662	2409	5685
0.9C-0350-435-OP	4.5	3221	817	893	2922	1871	4169	3617	2376	5593	4313	2880	7017	5008	3383	8440
0.9C-0350-485-OP	3.5	3210	812	886	3930	2603	6233	4794	3229	8002	-	-	-	-	-	-
0.9C-0400-280-OP	10.0	3904	1093	1278	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-335-OP	7.0	3884	1085	1266	-	-	-	1290	660	825	1702	974	1669	2114	1281	2513
0.9C-0400-385-OP	6.0	3860	1076	1253	1658	941	1579	2202	1346	2694	2747	1744	3809	3291	2139	4925
0.9C-0400-435-OP	4.5	3841	1068	1242	2551	1601	3409	3246	2107	4833	3941	2611	6256	4636	3114	7680
0.9C-0400-485-OP	3.5	3830	1064	1236	3559	2334	5472	4423	2960	7242	-	-	-	-	-	-
0.9C-0700-335-OP	9.0	5513	1482	1685	-	-	-	-	-	-	-	-	-	1619	516	516
0.9C-0700-385-OP	7.0	5489	1472	1671	-	-	-	1707	697	697	2252	1221	1812	2796	1631	2927
0.9C-0700-435-OP	5.5	5470	1465	1661	2056	1071	1411	2751	1597	2835	3446	2112	4259	4141	2620	5682
0.9C-0700-485-OP	4.5	5458	1460	1654	3064	1829	3475	3928	2464	5244	4792	3093	7014	5656	3721	8784
1.5C-1100-385-OP	9.0	10071	2304	2366	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1100-435-OP	7.0	10047	2293	2352	-	-	-	-	-	-	3937	1546	1546	4816	2517	3346
1.5C-1100-485-OP	6.0	10032	2287	2344	3453	555	555	4546	2307	2793	5638	3144	5031	6731	3962	7268
1.5C-1100-535-OP	5.0	10029	2285	2342	4873	2561	3462	6202	3567	6185	7532	4556	8908	8861	5531	11631
1.5C-1100-585-OP	4.0	9981	2264	2315	6407	3720	6606	7997	4899	9861	9587	6061	13117	-	-	-
1.5C-1200-385-OP	10.0	11759	3030	3348	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-435-OP	7.0	11735	3020	3334	-	-	-	-	-	-	-	-	-	3775	1276	1276
1.5C-1200-485-OP	6.0	11720	3014	3326	-	-	-	3505	722	722	4598	2359	2960	5690	3193	5198
1.5C-1200-535-OP	5.0	11717	3013	3324	3832	1392	1392	5162	2793	4115	6491	3793	6838	7820	4779	9561
1.5C-1200-585-OP	4.5	11669	2993	3297	5367	2949	4535	6956	4139	7791	8546	5310	11046	10135	6469	14302

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 0.1C-006A-085-OP TO 1.5C-1200-585-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
0.1C-006A-085-OP	12.0	116	28	29	122	79	179	140	91	215	157	104	251	192	130	323
0.1C-006A-100-OP	12.0	113	26	27	188	126	314	212	144	364	236	161	413	285	197	513
0.1C-006B-085-OP	12.0	206	44	45	102	53	68	120	66	105	137	79	141	172	105	213
0.1C-006B-100-OP	12.0	203	43	43	168	102	203	192	120	253	216	138	303	265	173	403
0.1C-006C-085-OP	12.0	272	57	57	86	-12	-12	103	24	24	121	58	60	156	86	133
0.1C-006C-100-OP	12.0	268	55	55	152	82	123	176	101	173	200	119	223	249	155	323
0.3C-008A-100-OP	12.0	368	89	94	176	95	138	208	119	203	239	142	268	303	189	398
0.3C-008A-135-OP	12.0	355	83	87	430	282	659	488	324	777	546	366	896	662	449	1133
0.3C-008B-100-OP	12.0	565	94	94	-	-	-	-	-	-	228	26	26	291	143	156
0.3C-008B-135-OP	12.0	553	87	87	419	241	417	477	284	536	535	327	654	650	411	891
0.3C-008C-100-OP	12.0	682	122	122	-	-	-	-	-	-	-	-	-	-	-	-
0.3C-008C-135-OP	12.0	669	114	114	386	203	274	444	247	393	502	290	512	617	376	749
0.3C-0100-135-OP	12.0	1089	243	246	-	-	-	-	-	-	-	-	-	467	226	234
0.3C-0100-175-OP	10.0	1073	236	238	621	345	549	718	418	748	815	490	948	1010	633	1346
0.3C-0100-235-OP	6.0	1049	224	224	1389	909	2123	1565	1036	2483	1740	1163	2842	-	-	-
0.3C-0150-175-OP	12.0	1358	356	398	450	199	199	547	289	399	644	363	598	839	508	996
0.3C-0150-235-OP	6.0	1335	346	385	1218	785	1774	1394	912	2133	1569	1040	2492	-	-	-
0.9C-0200-235-OP	12.0	1722	433	471	1374	862	1832	1577	1009	2247	1780	1157	2662	2186	1451	3493
0.9C-0200-280-OP	9.0	1695	422	456	2211	1469	3545	2499	1678	4135	2787	1886	4725	3363	2303	5904
0.9C-0200-335-OP	6.0	1675	413	444	3442	2360	6068	3855	2658	6912	4267	2956	7756	-	-	-
0.9C-0250-235-OP	12.0	2079	578	672	1160	705	1393	1363	853	1808	1566	1001	2224	1972	1296	3055
0.9C-0250-280-OP	9.0	2052	567	657	1997	1314	3106	2285	1523	3696	2573	1731	4286	3149	2148	5466
0.9C-0250-335-OP	6.0	2032	559	646	3228	2206	5629	3641	2504	6473	4053	2802	7318	-	-	-
0.9C-0350-280-OP	10.0	3284	842	928	1666	947	1596	1954	1162	2185	2242	1375	2775	2818	1795	3955
0.9C-0350-335-OP	7.0	3264	834	917	2897	1853	4118	3310	2153	4962	3722	2452	5807	4546	3049	7495
0.9C-0350-385-OP	5.5	3240	824	903	4207	2803	6800	4751	3198	7915	-	-	-	-	-	-
0.9C-0350-435-OP	4.5	3221	817	893	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0350-485-OP	3.5	3210	812	886	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-280-OP	10.0	3904	1093	1278	1295	664	835	1583	884	1425	1871	1100	2015	2446	1525	3195
0.9C-0400-335-OP	7.0	3884	1085	1266	2526	1583	3358	2938	1883	4202	3351	2183	5046	4175	2780	6735
0.9C-0400-385-OP	6.0	3860	1076	1253	3836	2535	6040	4380	2929	7155	4925	3323	8270	-	-	-
0.9C-0400-435-OP	4.5	3841	1068	1242	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0400-485-OP	3.5	3830	1064	1236	-	-	-	-	-	-	-	-	-	-	-	-
0.9C-0700-335-OP	9.0	5513	1482	1685	2031	1052	1360	2443	1366	2204	2856	1675	3049	3680	2284	4737
0.9C-0700-385-OP	7.0	5489	1472	1671	3341	2035	4042	3885	2433	5157	4429	2830	6272	5518	3621	8503
0.9C-0700-435-OP	5.5	5470	1465	1661	4836	3126	7106	5531	3630	8529	-	-	-	-	-	-
0.9C-0700-485-OP	4.5	5458	1460	1654	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1100-385-OP	9.0	10071	2304	2366	3803	1272	1272	4492	2265	2683	5180	2797	4093	6557	3832	6913
1.5C-1100-435-OP	7.0	10047	2293	2352	5695	3186	5146	6574	3845	6947	7453	4497	8747	9211	5786	12347
1.5C-1100-485-OP	6.0	10032	2287	2344	7824	4771	9506	8916	5571	11744	10009	6368	13982	-	-	-
1.5C-1100-535-OP	5.0	10029	2285	2342	10191	6500	14354	-	-	-	-	-	-	-	-	-
1.5C-1100-585-OP	4.0	9981	2264	2315	-	-	-	-	-	-	-	-	-	-	-	-
1.5C-1200-385-OP	10.0	11759	3030	3348	-	-	-	3451	612	612	4140	1996	2022	5517	3062	4842
1.5C-1200-435-OP	7.0	11735	3020	3334	4654	2403	3076	5533	3075	4876	6412	3734	6676	8170	5035	10277
1.5C-1200-485-OP	6.0	11720	3014	3326	6783	4010	7436	7876	4819	9673	8968	5618	11911	-	-	-
1.5C-1200-535-OP	5.0	11717	3013	3324	9150	5751	12284	-	-	-	-	-	-	-	-	-
1.5C-1200-585-OP	4.5	11669	2993	3297	-	-	-	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
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RTO: Run to Open
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 0.1C-006A-085-OP TO 1.5C-1200-585-OP

					Operating supply pressure (bar g)								
					9			10			12		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
0.1C-006A-085-OP	12.0	116	28	29	263	181	468	298	206	540	368	257	684
0.1C-006A-100-OP	12.0	113	26	27	383	267	713	431	302	813	529	373	1012
0.1C-006B-085-OP	12.0	206	44	45	243	157	357	278	182	429	348	233	573
0.1C-006B-100-OP	12.0	203	43	43	363	244	602	411	279	702	509	349	902
0.1C-006C-085-OP	12.0	272	57	57	227	138	277	262	164	349	332	215	493
0.1C-006C-100-OP	12.0	268	55	55	347	226	522	395	261	622	493	332	822
0.3C-008A-100-OP	12.0	368	89	94	430	281	658	494	328	788	621	420	1049
0.3C-008A-135-OP	12.0	355	83	87	894	617	1608	1009	700	1845	1241	868	2319
0.3C-008B-100-OP	12.0	565	94	94	419	240	416	482	288	547	609	381	807
0.3C-008B-135-OP	12.0	553	87	87	882	579	1366	998	663	1603	1229	831	2077
0.3C-008C-100-OP	12.0	682	122	122	386	202	274	449	251	404	576	346	664
0.3C-008C-135-OP	12.0	669	114	114	849	545	1223	965	629	1460	1196	797	1934
0.3C-0100-135-OP	12.0	1089	243	246	698	403	708	814	489	945	1046	659	1420
0.3C-0100-175-OP	10.0	1073	236	238	1399	916	2143	1593	1057	2542	-	-	-
0.3C-0100-235-OP	6.0	1049	224	224	-	-	-	-	-	-	-	-	-
0.3C-0150-175-OP	12.0	1358	356	398	1228	792	1793	1423	933	2192	1812	1215	2989
0.3C-0150-235-OP	6.0	1335	346	385	-	-	-	-	-	-	-	-	-
0.9C-0200-235-OP	12.0	1722	433	471	2997	2038	5155	3403	2332	5986	4214	2918	7648
0.9C-0200-280-OP	9.0	1695	422	456	4515	3135	8264	-	-	-	-	-	-
0.9C-0200-335-OP	6.0	1675	413	444	-	-	-	-	-	-	-	-	-
0.9C-0250-235-OP	12.0	2079	578	672	2783	1884	4717	3189	2177	5548	4000	2764	7210
0.9C-0250-280-OP	9.0	2052	567	657	4301	2981	7825	-	-	-	-	-	-
0.9C-0250-335-OP	6.0	2032	559	646	-	-	-	-	-	-	-	-	-
0.9C-0350-280-OP	10.0	3284	842	928	3970	2632	6314	4546	3049	7494	-	-	-
0.9C-0350-335-OP	7.0	3264	834	917	-	-	-	-	-	-	-	-	-
0.9C-0350-385-OP	5.5	3240	824	903	-	-	-	-	-	-	-	-	-
0.9C-0350-435-OP	4.5	3221	817	893	-	-	-	-	-	-	-	-	-
0.9C-0350-485-OP	3.5	3210	812	886	-	-	-	-	-	-	-	-	-
0.9C-0400-280-OP	10.0	3904	1093	1278	3598	2362	5554	4174	2780	6734	-	-	-
0.9C-0400-335-OP	7.0	3884	1085	1266	-	-	-	-	-	-	-	-	-
0.9C-0400-385-OP	6.0	3860	1076	1253	-	-	-	-	-	-	-	-	-
0.9C-0400-435-OP	4.5	3841	1068	1242	-	-	-	-	-	-	-	-	-
0.9C-0400-485-OP	3.5	3830	1064	1236	-	-	-	-	-	-	-	-	-
0.9C-0700-335-OP	9.0	5513	1482	1685	5329	3483	8115	-	-	-	-	-	-
0.9C-0700-385-OP	7.0	5489	1472	1671	-	-	-	-	-	-	-	-	-
0.9C-0700-435-OP	5.5	5470	1465	1661	-	-	-	-	-	-	-	-	-
0.9C-0700-485-OP	4.5	5458	1460	1654	-	-	-	-	-	-	-	-	-
1.5C-1100-385-OP	9.0	10071	2304	2366	9311	5860	12553	-	-	-	-	-	-
1.5C-1100-435-OP	7.0	10047	2293	2352	-	-	-	-	-	-	-	-	-
1.5C-1100-485-OP	6.0	10032	2287	2344	-	-	-	-	-	-	-	-	-
1.5C-1100-535-OP	5.0	10029	2285	2342	-	-	-	-	-	-	-	-	-
1.5C-1100-585-OP	4.0	9981	2264	2315	-	-	-	-	-	-	-	-	-
1.5C-1200-385-OP	10.0	11759	3030	3348	8271	5109	10483	9648	6114	13303	-	-	-
1.5C-1200-435-OP	7.0	11735	3020	3334	-	-	-	-	-	-	-	-	-
1.5C-1200-485-OP	6.0	11720	3014	3326	-	-	-	-	-	-	-	-	-
1.5C-1200-535-OP	5.0	11717	3013	3324	-	-	-	-	-	-	-	-	-
1.5C-1200-585-OP	4.5	11669	2993	3297	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 3C-2000-385-OP TO 14C-8300-985-OP

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
3C-2000-385-OP	10.0	17300	4694	5367	-	-	-	-	-	-	-	-	-	-	-	-
3C-2000-435-OP	7.0	17261	4678	5345	-	-	-	-	-	-	5085	1785	1785	6540	3459	4765
3C-2000-485-OP	7.0	17236	4668	5331	-	-	-	6093	3112	3849	7901	4490	7553	9710	5837	11256
3C-2000-535-OP	5.5	17231	4666	5328	6634	3531	4957	8834	5187	9464	11035	6814	13971	13235	8420	18478
3C-2000-585-OP	4.5	17151	4634	5283	9174	5440	10159	11805	7376	15548	14436	9293	20937	17067	11203	26326
6C-2500-485-OP	10.0	24670	6891	8034	-	-	-	-	-	-	7248	3287	3287	9362	5093	7617
6C-2500-535-OP	7.0	24663	6888	8031	-	-	-	8339	4308	5521	10911	6261	10791	13484	8174	16060
6C-2500-585-OP	7.0	24570	6851	7978	8736	4615	6335	11812	6933	12635	14888	9205	18935	17964	11449	25235
6C-2500-635-OP	6.0	24469	6810	7921	11971	7051	12960	15595	9722	20383	19219	12362	27806	22843	14994	35229
6C-2500-735-OP	4.5	24242	6719	7793	19236	12375	27840	24091	15900	37785	28947	19417	47730	33803	22931	57675
6C-3800-535-OP	9.0	33620	10043	12246	-	-	-	-	-	-	-	-	-	8921	4448	5073
6C-3800-585-OP	7.0	33527	10006	12193	-	-	-	7249	1648	1648	10325	5537	7948	13401	7851	14248
6C-3800-635-OP	6.0	33426	9966	12136	7408	1973	1973	11032	6075	9396	14656	8784	16819	18280	11446	24242
6C-3800-735-OP	5.0	33199	9876	12008	14673	8796	16853	19528	12357	26799	24384	15888	36744	29240	19410	46689
14C-5100-635-OP	10.0	40170	12043	14720	-	-	-	10451	5184	5810	14412	8215	13923	18373	11161	22036
14C-5100-735-OP	7.0	39921	11945	14580	14430	8228	13960	19737	12164	24830	25044	16035	35699	30351	19890	46569
14C-5100-785-OP	6.0	39784	11890	14502	18835	11502	22982	24889	15922	35381	30942	20319	47780	36996	24706	60178
14C-5100-835-OP	6.0	39637	11832	14420	23530	14933	32598	30379	19910	46626	37228	24874	60655	44078	29834	74683
14C-5100-885-OP	5.0	39481	11770	14332	28514	18557	42807	36209	24136	58566	43903	29707	74324	51597	35270	90083
14C-5100-935-OP	4.5	39316	11704	14239	33789	22384	53609	42377	28602	71199	50965	34813	88789	59553	41022	106379
14C-5400-635-OP	10.0	51974	14788	17456	-	-	-	-	-	-	-	-	-	15070	7309	7557
14C-5400-735-OP	7.0	51725	14689	17316	-	-	-	16434	8389	10351	21741	12428	21221	27048	16377	32090
14C-5400-785-OP	7.0	51587	14634	17239	15532	7678	8504	21585	12312	20902	27639	16813	33301	33692	21243	45700
14C-5400-835-OP	6.0	51441	14575	17156	20226	11290	18119	27076	16397	32148	33925	21413	46176	40774	26398	60204
14C-5400-885-OP	5.5	51285	14513	17068	25211	15015	28328	32905	20669	44087	40599	26270	59846	48293	31854	75605
14C-5400-935-OP	5.0	51120	14447	16975	30485	18903	39131	39073	25160	56721	47661	31395	74310	56249	37617	91900
14C-8300-735-OP	9.0	66586	19102	22673	-	-	-	-	-	-	15744	2993	2993	21051	10860	13862
14C-8300-785-OP	7.0	66448	19047	22595	-	-	-	15588	2674	2674	21642	11318	15073	27695	15905	27472
14C-8300-835-OP	7.0	66301	18988	22513	-	-	-	21079	10882	13920	27928	16079	27948	34777	21167	41977
14C-8300-885-OP	6.0	66145	18926	22425	19214	9414	10100	26908	15315	25859	34602	21038	41618	42296	26669	57377
14C-8300-935-OP	5.5	65980	18860	22332	24488	13493	20903	33076	19908	38493	41664	26208	56082	50252	32460	73672

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 3C-2000-385-OP TO 14C-8300-985-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
3C-2000-385-OP	10.0	17300	4694	5367	4864	1332	1332	6004	3043	3666	7143	3919	6000	9422	5624	10668
3C-2000-435-OP	7.0	17261	4678	5345	7995	4560	7744	9450	5645	10724	10904	6718	13704	13814	8840	19663
3C-2000-485-OP	7.0	17236	4668	5331	11518	7167	14960	13327	8486	18664	15135	9801	22368	18752	12425	29776
3C-2000-535-OP	5.5	17231	4666	5328	15436	10020	22985	17636	11616	27492	-	-	-	-	-	-
3C-2000-585-OP	4.5	17151	4634	5283	-	-	-	-	-	-	-	-	-	-	-	-
6C-2500-485-OP	10.0	24670	6891	8034	11476	6683	11948	13591	8252	16278	15705	9802	20608	19933	12882	29269
6C-2500-535-OP	7.0	24663	6888	8031	16057	10059	21329	18629	11933	26598	21202	13803	31867	26347	17534	42405
6C-2500-585-OP	7.0	24570	6851	7978	21040	13686	31535	24116	15917	37835	27192	18146	44135	33343	22600	56735
6C-2500-635-OP	6.0	24469	6810	7921	26468	17622	42652	30092	20246	50075	33716	22869	57498	-	-	-
6C-2500-735-OP	4.5	24242	6719	7793	-	-	-	-	-	-	-	-	-	-	-	-
6C-3800-535-OP	9.0	33620	10043	12246	11494	6423	10342	14066	8347	15611	16639	10247	20880	21784	13999	31419
6C-3800-585-OP	7.0	33527	10006	12193	16477	10128	20548	19553	12375	26848	22629	14613	33148	28780	19077	45748
6C-3800-635-OP	6.0	33426	9966	12136	21905	14086	31665	25529	16718	39088	29153	19347	46511	-	-	-
6C-3800-735-OP	5.0	33199	9876	12008	34095	22926	56634	-	-	-	-	-	-	-	-	-
14C-5100-635-OP	10.0	40170	12043	14720	22334	14061	30149	26296	16945	38262	30257	19821	46375	38179	25563	62601
14C-5100-735-OP	7.0	39921	11945	14580	35658	23737	57438	40965	27580	68308	46272	31420	79177	56886	39094	100917
14C-5100-785-OP	6.0	39784	11890	14502	43049	29089	72577	49103	33467	84976	55157	37844	97374	-	-	-
14C-5100-835-OP	6.0	39637	11832	14420	50927	34786	88712	57776	39738	102740	64626	44690	116768	-	-	-
14C-5100-885-OP	5.0	39481	11770	14332	59291	40833	105842	-	-	-	-	-	-	-	-	-
14C-5100-935-OP	4.5	39316	11704	14239	-	-	-	-	-	-	-	-	-	-	-	-
14C-5400-635-OP	10.0	51974	14788	17456	19031	10386	15670	22992	13364	23783	26953	16307	31897	34875	22106	48123
14C-5400-735-OP	7.0	51725	14689	17316	32355	20267	42960	37662	24133	53829	42969	27990	64699	53582	35686	86438
14C-5400-785-OP	7.0	51587	14634	17239	39746	25650	58098	45799	30044	70497	51853	34434	82896	63960	43201	107693
14C-5400-835-OP	6.0	51441	14575	17156	47623	31368	74233	54473	36331	88261	61322	41291	102290	-	-	-
14C-5400-885-OP	5.5	51285	14513	17068	55987	37428	91363	63681	42999	107122	-	-	-	-	-	-
14C-5400-935-OP	5.0	51120	14447	16975	64837	43836	109490	-	-	-	-	-	-	-	-	-
14C-8300-735-OP	9.0	66586	19102	22673	26358	14903	24732	31664	18862	35601	36971	22780	46471	47585	30520	68210
14C-8300-785-OP	7.0	66448	19047	22595	33749	20407	39870	39802	24849	52269	45856	29262	64668	57963	38057	89465
14C-8300-835-OP	7.0	66301	18988	22513	41626	26180	56005	48476	31168	70033	55325	36143	84062	69023	46073	112119
14C-8300-885-OP	6.0	66145	18926	22425	49990	32269	73136	57684	37855	88894	65378	43434	104653	-	-	-
14C-8300-935-OP	5.5	65980	18860	22332	58840	38694	91262	67428	44918	108852	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 3C-2000-385-OP TO 14C-8300-985-OP

					Operating supply pressure (bar g)								
						9			10			12	
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
3C-2000-385-OP	10.0	17300	4694	5367	13981	8962	20004	16260	10618	24672	-	-	-
3C-2000-435-OP	7.0	17261	4678	5345	-	-	-	-	-	-	-	-	-
3C-2000-485-OP	7.0	17236	4668	5331	-	-	-	-	-	-	-	-	-
3C-2000-535-OP	5.5	17231	4666	5328	-	-	-	-	-	-	-	-	-
3C-2000-585-OP	4.5	17151	4634	5283	-	-	-	-	-	-	-	-	-
6C-2500-485-OP	10.0	24670	6891	8034	28390	19014	46590	32619	22075	55250	-	-	-
6C-2500-535-OP	7.0	24663	6888	8031	-	-	-	-	-	-	-	-	-
6C-2500-585-OP	7.0	24570	6851	7978	-	-	-	-	-	-	-	-	-
6C-2500-635-OP	6.0	24469	6810	7921	-	-	-	-	-	-	-	-	-
6C-2500-735-OP	4.5	24242	6719	7793	-	-	-	-	-	-	-	-	-
6C-3800-535-OP	9.0	33620	10043	12246	32075	21462	52495	-	-	-	-	-	-
6C-3800-585-OP	7.0	33527	10006	12193	-	-	-	-	-	-	-	-	-
6C-3800-635-OP	6.0	33426	9966	12136	-	-	-	-	-	-	-	-	-
6C-3800-735-OP	5.0	33199	9876	12008	-	-	-	-	-	-	-	-	-
14C-5100-635-OP	10.0	40170	12043	14720	54023	37025	95053	61946	42752	111280	-	-	-
14C-5100-735-OP	7.0	39921	11945	14580	-	-	-	-	-	-	-	-	-
14C-5100-785-OP	6.0	39784	11890	14502	-	-	-	-	-	-	-	-	-
14C-5100-835-OP	6.0	39637	11832	14420	-	-	-	-	-	-	-	-	-
14C-5100-885-OP	5.0	39481	11770	14332	-	-	-	-	-	-	-	-	-
14C-5100-935-OP	4.5	39316	11704	14239	-	-	-	-	-	-	-	-	-
14C-5400-635-OP	10.0	51974	14788	17456	50720	33614	80575	58642	39350	96801	-	-	-
14C-5400-735-OP	7.0	51725	14689	17316	-	-	-	-	-	-	-	-	-
14C-5400-785-OP	7.0	51587	14634	17239	-	-	-	-	-	-	-	-	-
14C-5400-835-OP	6.0	51441	14575	17156	-	-	-	-	-	-	-	-	-
14C-5400-885-OP	5.5	51285	14513	17068	-	-	-	-	-	-	-	-	-
14C-5400-935-OP	5.0	51120	14447	16975	-	-	-	-	-	-	-	-	-
14C-8300-735-OP	9.0	66586	19102	22673	68813	45921	111688	-	-	-	-	-	-
14C-8300-785-OP	7.0	66448	19047	22595	-	-	-	-	-	-	-	-	-
14C-8300-835-OP	7.0	66301	18988	22513	-	-	-	-	-	-	-	-	-
14C-8300-885-OP	6.0	66145	18926	22425	-	-	-	-	-	-	-	-	-
14C-8300-935-OP	5.5	65980	18860	22332	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 18C-9600-835-OP TO 50C-15600-1450-OP

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
18C-9600-835-OP	9.0	105772	26591	28911	-	-	-	-	-	-	-	-	-	35406	12057	12057
18C-9600-935-OP	7.0	105403	26438	28703	-	-	-	33450	8050	8050	43326	22305	28278	53202	29841	48507
18C-9600-1000-OP	6.0	105141	26329	28555	31957	4992	4992	43254	22249	28131	54551	30857	51269	65848	39283	74408
18C-9600-1100-OP	5.5	104703	26148	28308	45954	24337	33661	59623	34653	61659	73293	44794	89656	86963	54787	117654
18C-9600-1200-OP	4.5	104224	25949	28038	61284	35890	65060	77552	47916	98379	93820	59784	131699	110088	71611	165018
18C-9600-1300-OP	4.0	103703	25733	27744	77947	48205	99189	97040	62126	138293	116132	75996	177397	-	-	-
18C-9800-835-OP	10.0	134273	33251	35801	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-935-OP	7.0	133904	33097	35593	-	-	-	-	-	-	-	-	-	44952	13548	13548
18C-9800-1000-OP	7.0	133642	32987	35446	-	-	-	-	-	-	46301	16310	16310	57598	30000	39449
18C-9800-1100-OP	6.0	133204	32805	35199	-	-	-	51373	25108	26700	65043	35695	54697	78713	45957	82695
18C-9800-1200-OP	5.0	132724	32604	34929	53034	26431	30101	69302	38912	63420	85570	51056	96740	101838	63049	130059
18C-9800-1300-OP	4.0	132203	32386	34635	69697	39210	64230	88790	53443	103334	107882	67462	142438	-	-	-
18C-10500-935-OP	9.0	156518	38971	42109	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-1000-OP	7.0	156255	38862	41961	-	-	-	-	-	-	-	-	-	50045	11711	11711
18C-10500-1100-OP	6.0	155817	38681	41714	-	-	-	-	-	-	57490	26959	26959	71160	38193	54957
18C-10500-1200-OP	5.5	155338	38482	41444	45481	2363	2363	61749	30901	35683	78017	43399	69002	94285	55577	102322
18C-10500-1300-OP	4.5	154817	38265	41150	62144	31213	36493	81237	45826	75597	100329	60064	114701	119421	74124	153805
18C-11000-935-OP	9.0	175538	46768	52829	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-1000-OP	7.0	175275	46662	52681	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-1100-OP	7.0	174838	46484	52435	-	-	-	-	-	-	46099	3629	3629	59769	29327	31627
18C-11000-1200-OP	6.0	174358	46289	52164	-	-	-	50358	12352	12352	66626	34710	45672	82894	47069	78991
18C-11000-1300-OP	6.0	173837	46077	51870	50754	13162	13162	69846	37188	52266	88938	51593	91370	108030	65766	130474
32C-12000-1100-OP	7.0	198681	47223	49571	-	-	-	-	-	-	66011	12312	12312	82058	40618	45178
32C-12000-1200-OP	7.0	198118	46984	49253	-	-	-	71010	22552	22552	90108	46924	61666	109205	61460	100780
32C-12000-1300-OP	6.0	197506	46724	48909	71475	23503	23503	93887	49837	69407	116300	66782	115312	138712	83458	161217
32C-15000-1100-OP	9.0	231520	58032	62974	-	-	-	-	-	-	-	-	-	67299	4897	4897
32C-15000-1200-OP	7.0	230957	57799	62657	-	-	-	-	-	-	75349	21385	21385	94446	48407	60499
32C-15000-1300-OP	6.0	230345	57545	62312	-	-	-	79129	29126	29126	101542	53893	75031	123954	70851	120936
50C-15400-1100-OP	10.0	250577	56694	57877	-	-	-	-	-	-	-	-	-	86784	13621	13621
50C-15400-1200-OP	7.0	249951	56417	57525	-	-	-	-	-	-	95728	31940	31940	116947	60031	75401
50C-15400-1300-OP	7.0	249271	56117	57142	-	-	-	99928	40542	40542	124831	66130	91547	149734	85001	142552
50C-15400-1450-OP	6.0	248150	55620	56509	110887	55275	62989	141869	79082	126444	172850	102263	189898	203831	125171	253353
50C-15600-1100-OP	10.0	262195	61728	64426	-	-	-	-	-	-	-	-	-	-	-	-
50C-15600-1200-OP	7.0	261570	61459	64073	-	-	-	-	-	-	88770	17689	17689	109989	54562	61149
50C-15600-1300-OP	7.0	260890	61168	63690	-	-	-	92970	26291	26291	117873	60751	77296	142776	79766	128301
50C-15600-1450-OP	6.0	259768	60686	63058	103930	48738	48738	134911	73818	112192	165892	97078	175647	196873	120057	239102

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 18C-9600-835-OP TO 50C-15600-1450-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
18C-9600-835-OP	9.0	105772	26591	28911	43282	22271	28189	51159	28301	44322	59036	34215	60455	74789	45892	92720
18C-9600-935-OP	7.0	105403	26438	28703	63078	37227	68735	72955	44544	88963	82831	51772	109191	102583	66159	149648
18C-9600-1000-OP	6.0	105141	26329	28555	77145	47618	97546	88442	55867	120685	99740	64090	143823	-	-	-
18C-9600-1100-OP	5.5	104703	26148	28308	100632	64739	145651	114302	74668	173649	-	-	-	-	-	-
18C-9600-1200-OP	4.5	104224	25949	28038	-	-	-	-	-	-	-	-	-	-	-	-
18C-9600-1300-OP	4.0	103703	25733	27744	-	-	-	-	-	-	-	-	-	-	-	-
18C-9800-835-OP	10.0	134273	33251	35801	-	-	-	42909	9363	9363	50786	24636	25496	66539	36829	57761
18C-9800-935-OP	7.0	133904	33097	35593	54828	27845	33776	64705	35438	54004	74581	42873	74233	94334	57545	114689
18C-9800-1000-OP	7.0	133642	32987	35446	68895	38605	62587	80193	47060	85726	91490	55445	108864	114084	71988	155141
18C-9800-1100-OP	6.0	133204	32805	35199	92382	56104	110692	106052	66127	138690	119721	76097	166688	-	-	-
18C-9800-1200-OP	5.0	132724	32604	34929	118106	74922	163379	-	-	-	-	-	-	-	-	-
18C-9800-1300-OP	4.0	132203	32386	34635	-	-	-	-	-	-	-	-	-	-	-	-
18C-10500-935-OP	9.0	156518	38971	42109	47275	6038	6038	57152	26267	26267	67028	35020	46495	86780	49982	86951
18C-10500-1000-OP	7.0	156255	38862	41961	61342	30579	34850	72639	39324	57988	83937	47851	81127	106531	64660	127404
18C-10500-1100-OP	6.0	155817	38681	41714	84829	48519	82955	98499	58707	110952	112168	68813	138950	-	-	-
18C-10500-1200-OP	5.5	155338	38482	41444	110553	67629	135641	126821	79523	168960	-	-	-	-	-	-
18C-10500-1300-OP	4.5	154817	38265	41150	-	-	-	-	-	-	-	-	-	-	-	-
18C-11000-935-OP	9.0	175538	46768	52829	-	-	-	45761	2936	2936	55637	23164	23164	75390	41412	63621
18C-11000-1000-OP	7.0	175275	46662	52681	49951	11519	11519	61249	30504	34658	72546	39253	57796	95140	56215	104073
18C-11000-1100-OP	7.0	174838	46484	52435	73438	39930	59624	87108	50227	87622	100777	60396	115619	128117	80469	171615
18C-11000-1200-OP	6.0	174358	46289	52164	99162	59198	112311	115430	71201	145630	131698	83082	178950	-	-	-
18C-11000-1300-OP	6.0	173837	46077	51870	127122	79743	169578	-	-	-	-	-	-	-	-	-
32C-12000-1100-OP	7.0	198681	47223	49571	98104	53062	78045	114151	65172	110912	130198	77145	143778	162292	100804	209512
32C-12000-1200-OP	7.0	198118	46984	49253	128302	75735	139894	147399	89885	179008	166496	103872	218122	204690	131695	296351
32C-12000-1300-OP	6.0	197506	46724	48909	161125	99952	207122	183538	116307	253026	205950	132612	298931	-	-	-
32C-15000-1100-OP	9.0	231520	58032	62974	83346	37764	37764	99393	52239	70631	115440	64453	103497	147534	88412	169231
32C-15000-1200-OP	7.0	230957	57799	62657	113544	63023	99613	132641	77343	138727	151738	91530	177841	189932	119531	256069
32C-15000-1300-OP	6.0	230345	57545	62312	146367	87547	166840	168779	104081	212745	191192	120451	258650	-	-	-
50C-15400-1100-OP	10.0	250577	56694	57877	104614	50139	50139	122444	64289	86658	140274	77879	123176	175933	104549	196214
50C-15400-1200-OP	7.0	249951	56417	57525	138166	76290	118861	159386	92230	162321	180605	108012	205781	223043	139221	292701
50C-15400-1300-OP	7.0	249271	56117	57142	174637	103587	193558	199540	122025	244563	224442	140242	295568	274248	176521	397579
50C-15400-1450-OP	6.0	248150	55620	56509	234813	147809	316808	265794	170371	380263	296775	192893	443718	-	-	-
50C-15600-1100-OP	10.0	262195	61728	64426	97656	35888	35888	115486	58894	72407	133316	72607	108925	168975	99376	181963
50C-15600-1200-OP	7.0	261570	61459	64073	131208	71007	104610	152428	87020	148070	173647	102853	191530	216085	134143	278450
50C-15600-1300-OP	7.0	260890	61168	63690	167679	98410	179307	192582	116888	230312	217484	135165	281317	267290	171460	383328
50C-15600-1450-OP	6.0	259768	60686	63058	227855	142732	302557	258836	165310	366012	289817	187845	429466	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - CANTED YOKE DESIGN, SPRING TO OPEN. MODELS 18C-9600-835-OP TO 50C-15600-1450-OP

					Operating supply pressure (bar g)								
					9			10			12		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
18C-9600-835-OP	9.0	105772	26591	28911	106296	68859	157251	-	-	-	-	-	-
18C-9600-935-OP	7.0	105403	26438	28703	-	-	-	-	-	-	-	-	-
18C-9600-1000-OP	6.0	105141	26329	28555	-	-	-	-	-	-	-	-	-
18C-9600-1100-OP	5.5	104703	26148	28308	-	-	-	-	-	-	-	-	-
18C-9600-1200-OP	4.5	104224	25949	28038	-	-	-	-	-	-	-	-	-
18C-9600-1300-OP	4.0	103703	25733	27744	-	-	-	-	-	-	-	-	-
18C-9800-835-OP	10.0	134273	33251	35801	98046	60272	122292	113799	71780	154558	-	-	-
18C-9800-935-OP	7.0	133904	33097	35593	-	-	-	-	-	-	-	-	-
18C-9800-1000-OP	7.0	133642	32987	35446	-	-	-	-	-	-	-	-	-
18C-9800-1100-OP	6.0	133204	32805	35199	-	-	-	-	-	-	-	-	-
18C-9800-1200-OP	5.0	132724	32604	34929	-	-	-	-	-	-	-	-	-
18C-9800-1300-OP	4.0	132203	32386	34635	-	-	-	-	-	-	-	-	-
18C-10500-935-OP	9.0	156518	38971	42109	126286	79133	167864	-	-	-	-	-	-
18C-10500-1000-OP	7.0	156255	38862	41961	-	-	-	-	-	-	-	-	-
18C-10500-1100-OP	6.0	155817	38681	41714	-	-	-	-	-	-	-	-	-
18C-10500-1200-OP	5.5	155338	38482	41444	-	-	-	-	-	-	-	-	-
18C-10500-1300-OP	4.5	154817	38265	41150	-	-	-	-	-	-	-	-	-
18C-11000-935-OP	9.0	175538	46768	52829	114895	70809	144534	-	-	-	-	-	-
18C-11000-1000-OP	7.0	175275	46662	52681	-	-	-	-	-	-	-	-	-
18C-11000-1100-OP	7.0	174838	46484	52435	-	-	-	-	-	-	-	-	-
18C-11000-1200-OP	6.0	174358	46289	52164	-	-	-	-	-	-	-	-	-
18C-11000-1300-OP	6.0	173837	46077	51870	-	-	-	-	-	-	-	-	-
32C-12000-1100-OP	7.0	198681	47223	49571	-	-	-	-	-	-	-	-	-
32C-12000-1200-OP	7.0	198118	46984	49253	-	-	-	-	-	-	-	-	-
32C-12000-1300-OP	6.0	197506	46724	48909	-	-	-	-	-	-	-	-	-
32C-15000-1100-OP	9.0	231520	58032	62974	211721	135403	300698	-	-	-	-	-	-
32C-15000-1200-OP	7.0	230957	57799	62657	-	-	-	-	-	-	-	-	-
32C-15000-1300-OP	6.0	230345	57545	62312	-	-	-	-	-	-	-	-	-
50C-15400-1100-OP	10.0	250577	56694	57877	247253	156884	342288	282913	182824	415325	-	-	-
50C-15400-1200-OP	7.0	249951	56417	57525	-	-	-	-	-	-	-	-	-
50C-15400-1300-OP	7.0	249271	56117	57142	-	-	-	-	-	-	-	-	-
50C-15400-1450-OP	6.0	248150	55620	56509	-	-	-	-	-	-	-	-	-
50C-15600-1100-OP	10.0	262195	61728	64426	240295	151810	328037	275955	177763	401074	-	-	-
50C-15600-1200-OP	7.0	261570	61459	64073	-	-	-	-	-	-	-	-	-
50C-15600-1300-OP	7.0	260890	61168	63690	-	-	-	-	-	-	-	-	-
50C-15600-1450-OP	6.0	259768	60686	63058	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1S-006A-085-CL TO 1.5S-1200-585-CL

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1S-006A-085-CL	12.0	79	34	42	59	23	23	79	37	46	100	50	70	120	63	93
0.1S-006A-100-CL	12.0	77	33	39	104	53	74	132	71	107	160	89	139	188	107	171
0.1S-006B-085-CL	12.0	141	59	66	-	-	-	-	-	-	-	-	-	96	22	22
0.1S-006B-100-CL	12.0	138	57	64	79	4	4	108	36	36	136	60	68	164	78	101
0.1S-006C-085-CL	12.0	185	77	86	-	-	-	-	-	-	-	-	-	-	-	-
0.1S-006C-100-CL	12.0	183	75	83	-	-	-	-	-	-	117	17	17	145	49	49
0.3S-008A-100-CL	12.0	246	108	130	-	-	-	-	-	-	131	12	12	168	54	54
0.3S-008A-135-CL	12.0	238	103	121	231	105	126	298	149	203	365	192	280	432	235	356
0.3S-008B-100-CL	12.0	381	143	143	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-008B-135-CL	12.0	373	134	134	-	-	-	285	53	53	352	130	130	420	183	207
0.3S-008C-100-CL	12.0	458	177	181	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-008C-135-CL	12.0	450	171	172	-	-	-	-	-	-	315	41	41	382	118	118
0.3S-0100-135-CL	12.0	731	307	350	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-0100-175-CL	12.0	721	301	339	-	-	-	-	-	-	495	119	119	608	244	248
0.3S-0100-235-CL	7.0	705	290	322	798	374	466	1001	507	698	1205	638	931	1408	768	1163
0.3S-0150-175-CL	12.0	907	419	539	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-0150-235-CL	7.0	891	410	523	600	239	240	804	378	472	1007	510	704	1210	641	937
0.9S-0200-235-CL	12.0	1192	544	688	611	90	90	846	346	359	1081	506	628	1316	659	897
0.9S-0200-280-CL	12.0	1175	533	669	1186	574	748	1519	791	1129	1853	1005	1511	2187	1218	1892
0.9S-0200-335-CL	9.0	1162	525	655	2037	1122	1721	2514	1427	2267	2992	1731	2813	3469	2034	3359
0.9S-0250-235-CL	12.0	1426	691	940	-	-	-	598	75	75	833	337	344	1068	497	613
0.9S-0250-280-CL	12.0	1408	680	921	938	410	464	1271	630	846	1605	846	1227	1939	1059	1609
0.9S-0250-335-CL	9.0	1395	671	907	1789	964	1437	2266	1269	1983	2744	1573	2529	3221	1876	3076
0.9S-0350-280-CL	12.0	2271	1049	1345	-	-	-	-	-	-	-	-	-	1520	608	614
0.9S-0350-335-CL	10.0	2258	1041	1331	1370	443	443	1848	835	989	2325	1149	1535	2803	1458	2081
0.9S-0350-385-CL	7.0	2242	1031	1315	2274	1116	1477	2905	1524	2198	3536	1928	2920	4166	2331	3641
0.9S-0350-435-CL	6.0	2230	1023	1301	3309	1783	2661	4114	2298	3581	4919	2811	4502	5724	3323	5423
0.9S-0350-485-CL	5.0	2222	1018	1293	4476	2528	3995	5477	3165	5140	6478	3801	6285	7479	4436	7429
0.9S-0400-280-CL	12.0	2676	1302	1782	-	-	-	-	-	-	-	-	-	-	-	-
0.9S-0400-335-CL	10.0	2663	1294	1767	-	-	-	1418	497	497	1895	866	1043	2373	1180	1589
0.9S-0400-385-CL	7.0	2647	1284	1751	1844	832	985	2475	1246	1706	3106	1653	2428	3736	2056	3149
0.9S-0400-435-CL	6.0	2635	1276	1737	2879	1507	2169	3684	2023	3090	4489	2537	4010	5294	3049	4931
0.9S-0400-485-CL	5.0	2627	1272	1729	4046	2254	3503	5047	2892	4648	6048	3528	5793	7049	4163	6937
0.9S-0700-335-CL	12.0	3795	1802	2392	-	-	-	-	-	-	-	-	-	1757	277	277
0.9S-0700-385-CL	9.0	3780	1792	2375	-	-	-	1859	394	394	2490	1043	1115	3121	1468	1836
0.9S-0700-435-CL	7.0	3767	1784	2362	2264	856	856	3069	1434	1777	3874	1959	2698	4679	2478	3619
0.9S-0700-485-CL	5.5	3760	1780	2353	3431	1671	2191	4431	2319	3335	5432	2961	4480	6433	3600	5625
1.5S-1100-385-CL	10.0	6209	3024	3643	-	-	-	-	-	-	-	-	-	-	-	-
1.5S-1100-435-CL	7.0	6195	3014	3625	-	-	-	-	-	-	4935	1070	1070	6039	2109	2135
1.5S-1100-485-CL	6.0	6186	3008	3614	4326	483	483	5699	1808	1808	7072	2775	3132	8445	3616	4457
1.5S-1100-535-CL	5.5	6184	3006	3611	6110	2157	2204	7781	3212	3816	9452	4222	5428	11122	5219	7040
1.5S-1100-585-CL	4.4	6155	2986	3574	8039	3369	4065	10036	4572	5992	12034	5759	7919	14031	6940	9846
1.5S-1200-385-CL	10.0	7216	3730	4969	-	-	-	-	-	-	-	-	-	-	-	-
1.5S-1200-435-CL	9.0	7202	3720	4951	-	-	-	-	-	-	-	-	-	4731	908	908
1.5S-1200-485-CL	7.0	7193	3714	4940	-	-	-	4392	580	580	5765	1905	1905	7138	2830	3230
1.5S-1200-535-CL	6.0	7191	3713	4937	-	-	-	6473	2412	2588	8144	3447	4200	9814	4453	5812
1.5S-1200-585-CL	5.0	7162	3693	4901	6731	2576	2837	8728	3801	4764	10726	4996	6692	12724	6181	8619

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1S-006A-085-CL TO 1.5S-1200-585-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1S-006A-085-CL	12.0	79	34	42	140	77	116	161	90	140	181	103	163	222	128	210
0.1S-006A-100-CL	12.0	77	33	39	216	125	204	245	143	236	273	161	268	329	197	333
0.1S-006B-085-CL	12.0	141	59	66	116	46	46	137	60	69	157	74	92	198	100	139
0.1S-006B-100-CL	12.0	138	57	64	192	97	133	220	115	165	249	133	197	305	169	262
0.1S-006C-085-CL	12.0	185	77	86	-	-	-	117	18	18	138	41	41	178	78	88
0.1S-006C-100-CL	12.0	183	75	83	173	74	82	201	93	114	229	111	146	286	148	211
0.3S-008A-100-CL	12.0	246	108	130	205	87	96	241	112	138	278	136	180	352	184	264
0.3S-008A-135-CL	12.0	238	103	121	499	278	433	566	321	510	634	364	587	768	449	740
0.3S-008B-100-CL	12.0	381	143	143	-	-	-	-	-	-	265	31	31	339	115	115
0.3S-008B-135-CL	12.0	373	134	134	487	228	284	554	272	360	621	315	437	755	402	590
0.3S-008C-100-CL	12.0	458	177	181	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-008C-135-CL	12.0	450	171	172	449	185	194	516	231	271	583	276	348	717	363	501
0.3S-0100-135-CL	12.0	731	307	350	-	-	-	-	-	-	-	-	-	542	173	173
0.3S-0100-175-CL	12.0	721	301	339	721	322	377	833	397	506	946	471	635	1171	616	893
0.3S-0100-235-CL	7.0	705	290	322	1611	898	1395	1814	1027	1628	2017	1156	1860	2424	1415	2325
0.3S-0150-175-CL	12.0	907	419	539	523	151	151	636	264	280	748	341	409	974	489	667
0.3S-0150-235-CL	7.0	891	410	523	1413	771	1169	1616	901	1402	1820	1031	1634	2226	1289	2099
0.9S-0200-235-CL	12.0	1192	544	688	1551	811	1165	1786	962	1434	2021	1112	1703	2491	1412	2240
0.9S-0200-280-CL	12.0	1175	533	669	2520	1430	2274	2854	1643	2655	3187	1855	3037	3854	2278	3800
0.9S-0200-335-CL	9.0	1162	525	655	3947	2337	3905	4424	2640	4451	4902	2943	4998	5857	3549	6090
0.9S-0250-235-CL	12.0	1426	691	940	1303	651	882	1538	803	1150	1773	953	1419	2243	1254	1957
0.9S-0250-280-CL	12.0	1408	680	921	2272	1272	1990	2606	1485	2372	2939	1697	2753	3606	2121	3516
0.9S-0250-335-CL	9.0	1395	671	907	3699	2180	3622	4176	2483	4168	4654	2786	4714	5609	3392	5806
0.9S-0350-280-CL	12.0	2271	1049	1345	1853	839	996	2187	1059	1377	2521	1276	1759	3188	1705	2522
0.9S-0350-335-CL	10.0	2258	1041	1331	3280	1765	2627	3758	2070	3174	4235	2375	3720	5190	2983	4812
0.9S-0350-385-CL	7.0	2242	1031	1315	4797	2733	4362	5428	3134	5083	6058	3535	5805	7320	4336	7247
0.9S-0350-435-CL	6.0	2230	1023	1301	6530	3834	6344	7335	4345	7265	8140	4856	8185	-	-	-
0.9S-0350-485-CL	5.0	2222	1018	1293	8479	5072	8574	-	-	-	-	-	-	-	-	-
0.9S-0400-280-CL	12.0	2676	1302	1782	1423	504	504	1757	774	885	2091	996	1267	2758	1429	2030
0.9S-0400-335-CL	10.0	2663	1294	1767	2850	1489	2136	3328	1795	2682	3805	2100	3228	4760	2709	4320
0.9S-0400-385-CL	7.0	2647	1284	1751	4367	2459	3870	4998	2860	4592	5628	3262	5313	6890	4062	6756
0.9S-0400-435-CL	6.0	2635	1276	1737	6100	3561	5852	6905	4072	6773	7710	4583	7694	-	-	-
0.9S-0400-485-CL	5.0	2627	1272	1729	8049	4799	8082	-	-	-	-	-	-	-	-	-
0.9S-0700-335-CL	12.0	3795	1802	2392	2235	823	823	2712	1195	1369	3190	1513	1915	4145	2134	3007
0.9S-0700-385-CL	9.0	3780	1792	2375	3751	1880	2558	4382	2288	3279	5013	2692	4000	6274	3499	5443
0.9S-0700-435-CL	7.0	3767	1784	2362	5484	2994	4539	6289	3508	5460	7094	4021	6381	8705	5046	8223
0.9S-0700-485-CL	5.5	3760	1780	2353	7434	4238	6769	8435	4874	7914	-	-	-	-	-	-
1.5S-1100-385-CL	10.0	6209	3024	3643	4767	908	908	5632	1742	1742	6497	2411	2577	8227	3484	4247
1.5S-1100-435-CL	7.0	6195	3014	3625	7144	2819	3201	8248	3497	4266	9353	4163	5332	11562	5480	7463
1.5S-1100-485-CL	6.0	6186	3008	3614	9818	4442	5782	11191	5260	7106	12564	6074	8431	-	-	-
1.5S-1100-535-CL	5.5	6184	3006	3611	12793	6209	8651	14464	7196	10263	-	-	-	-	-	-
1.5S-1100-585-CL	4.4	6155	2986	3574	-	-	-	-	-	-	-	-	-	-	-	-
1.5S-1200-385-CL	10.0	7216	3730	4969	-	-	-	4324	515	515	5189	1350	1350	6920	2694	3019
1.5S-1200-435-CL	9.0	7202	3720	4951	5836	1973	1973	6940	2707	3039	8045	3387	4105	10254	4715	6236
1.5S-1200-485-CL	7.0	7193	3714	4940	8511	3670	4554	9884	4494	5879	11257	5311	7204	14003	6936	9853
1.5S-1200-535-CL	6.0	7191	3713	4937	11485	5447	7424	13156	6436	9036	14826	7422	10648	-	-	-
1.5S-1200-585-CL	5.0	7162	3693	4901	14721	7360	10546	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 0.1S-006A-085-CL TO 1.5S-1200-585-CL

					Operating supply pressure (bar g)								
					9			10			12		
Model	MOP (bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
0.1S-006A-085-CL	12.0	79	34	42	304	180	303	344	206	350	426	258	443
0.1S-006A-100-CL	12.0	77	33	39	442	268	462	499	304	526	612	376	656
0.1S-006B-085-CL	12.0	141	59	66	279	153	232	320	179	279	402	231	372
0.1S-006B-100-CL	12.0	138	57	64	418	241	391	475	277	456	587	349	585
0.1S-006C-085-CL	12.0	185	77	86	260	131	181	301	158	228	382	210	321
0.1S-006C-100-CL	12.0	183	75	83	399	220	340	455	256	404	568	328	534
0.3S-008A-100-CL	12.0	246	108	130	499	278	433	573	325	517	720	419	685
0.3S-008A-135-CL	12.0	238	103	121	1036	619	1047	1170	704	1200	1438	875	1507
0.3S-008B-100-CL	12.0	381	143	143	486	228	283	560	276	367	707	371	536
0.3S-008B-135-CL	12.0	373	134	134	1023	573	897	1157	659	1051	1425	829	1357
0.3S-008C-100-CL	12.0	458	177	181	449	185	194	522	235	278	670	332	446
0.3S-008C-135-CL	12.0	450	171	172	986	536	808	1120	621	961	1388	792	1268
0.3S-0100-135-CL	12.0	731	307	350	811	382	480	945	470	633	1213	643	940
0.3S-0100-175-CL	12.0	721	301	339	1622	905	1408	1848	1048	1666	2298	1335	2182
0.3S-0100-235-CL	7.0	705	290	322	-	-	-	-	-	-	-	-	-
0.3S-0150-175-CL	12.0	907	419	539	1424	778	1182	1650	922	1440	2101	1209	1955
0.3S-0150-235-CL	7.0	891	410	523	-	-	-	-	-	-	-	-	-
0.9S-0200-235-CL	12.0	1192	544	688	3431	2009	3315	3901	2308	3853	4841	2905	4928
0.9S-0200-280-CL	12.0	1175	533	669	5189	3126	5326	5856	3549	6089	7190	4395	7615
0.9S-0200-335-CL	9.0	1162	525	655	7767	4761	8274	-	-	-	-	-	-
0.9S-0250-235-CL	12.0	1426	691	940	3183	1852	3032	3653	2150	3569	4593	2747	4644
0.9S-0250-280-CL	12.0	1408	680	921	4941	2968	5042	5608	3392	5805	6942	4238	7331
0.9S-0250-335-CL	9.0	1395	671	907	7519	4604	7991	-	-	-	-	-	-
0.9S-0350-280-CL	12.0	2271	1049	1345	4522	2558	4048	5189	2982	4811	6524	3830	6337
0.9S-0350-335-CL	10.0	2258	1041	1331	7100	4196	6996	8055	4803	8089	-	-	-
0.9S-0350-385-CL	7.0	2242	1031	1315	-	-	-	-	-	-	-	-	-
0.9S-0350-435-CL	6.0	2230	1023	1301	-	-	-	-	-	-	-	-	-
0.9S-0350-485-CL	5.0	2222	1018	1293	-	-	-	-	-	-	-	-	-
0.9S-0400-280-CL	12.0	2676	1302	1782	4092	2284	3556	4759	2709	4319	6094	3557	5845
0.9S-0400-335-CL	10.0	2663	1294	1767	6670	3923	6505	7625	4530	7597	-	-	-
0.9S-0400-385-CL	7.0	2647	1284	1751	-	-	-	-	-	-	-	-	-
0.9S-0400-435-CL	6.0	2635	1276	1737	-	-	-	-	-	-	-	-	-
0.9S-0400-485-CL	5.0	2627	1272	1729	-	-	-	-	-	-	-	-	-
0.9S-0700-335-CL	12.0	3795	1802	2392	6055	3359	5192	7010	3967	6284	8920	5183	8469
0.9S-0700-385-CL	9.0	3780	1792	2375	8797	5105	8328	-	-	-	-	-	-
0.9S-0700-435-CL	7.0	3767	1784	2362	-	-	-	-	-	-	-	-	-
0.9S-0700-485-CL	5.5	3760	1780	2353	-	-	-	-	-	-	-	-	-
1.5S-1100-385-CL	10.0	6209	3024	3643	11688	5555	7585	13418	6579	9255	-	-	-
1.5S-1100-435-CL	7.0	6195	3014	3625	-	-	-	-	-	-	-	-	-
1.5S-1100-485-CL	6.0	6186	3008	3614	-	-	-	-	-	-	-	-	-
1.5S-1100-535-CL	5.5	6184	3006	3611	-	-	-	-	-	-	-	-	-
1.5S-1100-585-CL	4.4	6155	2986	3574	-	-	-	-	-	-	-	-	-
1.5S-1200-385-CL	10.0	7216	3730	4969	10380	4790	6358	12111	5818	8027	-	-	-
1.5S-1200-435-CL	9.0	7202	3720	4951	14672	7331	10498	-	-	-	-	-	-
1.5S-1200-485-CL	7.0	7193	3714	4940	-	-	-	-	-	-	-	-	-
1.5S-1200-535-CL	6.0	7191	3713	4937	-	-	-	-	-	-	-	-	-
1.5S-1200-585-CL	5.0	7162	3693	4901	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 3S-2000-385-CL TO 14S-8300-985-CL

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3S-2000-385-CL	12.0	10845	5668	7860	-	-	-	-	-	-	-	-	-	-	-	-
3S-2000-435-CL	10.0	10821	5652	7831	-	-	-	-	-	-	6179	1171	1171	7984	2891	2962
3S-2000-485-CL	7.0	10806	5642	7812	-	-	-	7429	2411	2411	9672	3978	4637	11915	5360	6864
3S-2000-535-CL	7.0	10802	5640	7808	8100	2970	3077	10829	4696	5786	13558	6356	8495	16288	7999	11205
3S-2000-585-CL	5.5	10754	5608	7748	11250	4954	6204	14514	6933	9444	17777	8891	12683	21040	10841	15922
6S-2500-485-CL	12.0	15533	8240	11721	-	-	-	-	-	-	8720	2029	2029	11337	4320	4637
6S-2500-535-CL	10.0	15529	8238	11716	-	-	-	10070	3374	3374	13255	5538	6548	16440	7496	9722
6S-2500-585-CL	9.0	15473	8200	11646	10562	3803	3864	14370	6229	7659	18178	8551	11454	21986	10846	15248
6S-2500-635-CL	7.0	15411	8159	11570	14567	6350	7855	19054	9080	12326	23541	11779	16797	28028	14466	21268
6S-2500-735-CL	6.0	15273	8067	11399	23561	11792	16818	29573	15389	22808	35584	18976	28798	41596	22559	34788
6S-3800-535-CL	12.0	21051	11605	17481	-	-	-	-	-	-	-	-	-	10755	3111	3111
6S-3800-585-CL	10.0	20994	11568	17411	-	-	-	8684	1048	1048	12493	4634	4843	16301	7046	8637
6S-3800-635-CL	7.0	20933	11527	17335	8881	1244	1244	13368	5206	5715	17855	8000	10186	22342	10721	14657
6S-3800-735-CL	6.0	20795	11436	17164	17876	8012	10207	23887	11652	16197	29898	15259	22187	35910	18852	28177
14S-5100-635-CL	12.0	24596	13852	21159	-	-	-	12930	3643	3643	17907	7250	8445	22885	10264	13248
14S-5100-735-CL	10.0	24447	13752	20969	17930	7264	8467	24599	11289	14901	31268	15246	21336	37937	19179	27770
14S-5100-785-CL	9.0	24365	13697	20864	23466	10612	13808	31073	15131	21147	38680	19616	28486	46287	24089	35826
14S-5100-835-CL	7.0	24277	13638	20752	29365	14120	19500	37972	19199	27804	46579	24260	36108	55186	29312	44412
14S-5100-885-CL	7.0	24184	13575	20633	35629	17820	25543	45298	23507	34871	54966	29183	44200	64635	34853	53528
14S-5100-935-CL	6.0	24086	13509	20507	42257	21721	31937	53049	28059	42350	63841	34388	52762	74633	40711	63174
14S-5400-635-CL	12.0	31902	17436	25418	-	-	-	-	-	-	-	-	-	18684	4827	4827
14S-5400-735-CL	10.0	31754	17336	25229	-	-	-	20398	6481	6481	27067	11022	12915	33736	15061	19349
14S-5400-785-CL	9.0	31671	17281	25124	19265	5387	5387	26872	10902	12727	34479	15507	20066	42086	20036	27406
14S-5400-835-CL	7.0	31584	17222	25012	25164	9844	11079	33771	15082	19383	42379	20209	27688	50986	25297	35992
14S-5400-885-CL	7.0	31491	17159	24893	31428	13674	17123	41097	19449	26451	50766	25167	35779	60434	30863	45108
14S-5400-935-CL	6.0	31392	17093	24767	38056	17642	23517	48848	24035	33929	59640	30396	44342	70432	36738	54754
14S-8300-735-CL	10.0	40951	22498	33067	-	-	-	-	-	-	-	-	-	26007	8526	8526
14S-8300-785-CL	10.0	40869	22443	32962	-	-	-	-	-	-	26750	9223	9242	34357	14070	16582
14S-8300-835-CL	7.0	40781	22384	32850	-	-	-	26042	8559	8559	34649	14249	16864	43256	19452	25168
14S-8300-885-CL	7.0	40688	22321	32731	23699	6299	6299	33367	13462	15627	43036	19320	24955	52705	25078	34284
14S-8300-935-CL	7.0	40590	22254	32605	30327	11565	12693	41119	18170	23105	51911	24607	33518	62703	30990	43930

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 3S-2000-385-CL TO 14S-8300-985-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3S-2000-385-CL	12.0	10845	5668	7860	5905	898	898	7318	2301	2301	8732	3383	3704	11558	5142	6510
3S-2000-435-CL	10.0	10821	5652	7831	9788	4051	4753	11592	5163	6544	13397	6259	8335	17005	8429	11917
3S-2000-485-CL	7.0	10806	5642	7812	14158	6718	9090	16401	8066	11317	18643	9410	13543	23129	12087	17996
3S-2000-535-CL	7.0	10802	5640	7808	19017	9633	13914	21746	11262	16623	24475	12889	19332	29934	16138	24750
3S-2000-585-CL	5.5	10754	5608	7748	24303	12787	19161	27566	14729	22400	-	-	-	-	-	-
6S-2500-485-CL	12.0	15533	8240	11721	13955	5972	7245	16572	7576	9853	19190	9162	12462	24425	12309	17678
6S-2500-535-CL	10.0	15529	8238	11716	19625	9425	12896	22810	11342	16070	25995	13251	19243	32365	17057	25591
6S-2500-585-CL	9.0	15473	8200	11646	25795	13130	19043	29603	15407	22838	33411	17680	26633	41027	22220	34222
6S-2500-635-CL	7.0	15411	8159	11570	32515	17146	25739	37001	19822	30211	41488	22495	34682	50462	27838	43624
6S-2500-735-CL	6.0	15273	8067	11399	47607	26138	40779	53618	29716	46769	59630	33291	52759	-	-	-
6S-3800-535-CL	12.0	21051	11605	17481	13940	5571	6285	17125	7553	9458	20310	9493	12632	26680	13330	18980
6S-3800-585-CL	10.0	20994	11568	17411	20109	9371	12432	23917	11670	16227	27725	13957	20022	35342	18513	27611
6S-3800-635-CL	7.0	20933	11527	17335	26829	13420	19128	31316	16106	23600	35803	18788	28071	44777	24139	37013
6S-3800-735-CL	6.0	20795	11436	17164	41921	22437	34168	47933	26019	40158	53944	29598	46148	-	-	-
14S-5100-635-CL	12.0	24596	13852	21159	27863	13230	18050	32840	16174	22853	37818	19109	27655	47774	24962	37260
14S-5100-735-CL	10.0	24447	13752	20969	44606	23101	34204	51275	27018	40638	57944	30929	47072	71282	38748	59941
14S-5100-785-CL	9.0	24365	13697	20864	53894	28554	43165	61501	33016	50505	69109	37476	57844	84323	46386	72523
14S-5100-835-CL	7.0	24277	13638	20752	63793	34360	52716	72401	39404	61020	81008	44445	69324	98222	54527	85933
14S-5100-885-CL	7.0	24184	13575	20633	74304	40518	62856	83973	46181	72185	93641	51844	81513	112979	63165	100170
14S-5100-935-CL	6.0	24086	13509	20507	85425	47032	73586	96217	53353	83999	107010	59672	94411	-	-	-
14S-5400-635-CL	12.0	31902	17436	25418	23662	8896	9630	28640	11984	14432	33617	14990	19235	43573	20916	28840
14S-5400-735-CL	10.0	31754	17336	25229	40405	19038	25784	47074	22988	32218	53743	26923	38652	67081	34770	51521
14S-5400-785-CL	9.0	31671	17281	25124	49693	24534	34745	57301	29018	42084	64908	33493	49424	80122	42427	64103
14S-5400-835-CL	7.0	31584	17222	25012	59593	30368	44296	68200	35427	52600	76807	40483	60904	94021	50578	77512
14S-5400-885-CL	7.0	31491	17159	24893	70103	36545	54436	79772	42221	63765	89441	47892	73093	108778	59226	91750
14S-5400-935-CL	6.0	31392	17093	24767	81225	43073	65166	92017	49402	75578	102809	55730	85991	-	-	-
14S-8300-735-CL	10.0	40951	22498	33067	32676	13034	14960	39345	17101	21394	46014	21099	27828	59352	29011	40697
14S-8300-785-CL	10.0	40869	22443	32962	41964	18677	23921	49571	23217	31260	57178	27727	38600	72393	36700	53279
14S-8300-835-CL	7.0	40781	22384	32850	51863	24579	33472	60470	29672	41776	69077	34748	50080	86292	44872	66688
14S-8300-885-CL	7.0	40688	22321	32731	62374	30795	43612	72042	36494	52941	81711	42181	62269	101049	53536	80926
14S-8300-935-CL	7.0	40590	22254	32605	73495	37349	54342	84287	43695	64754	95079	50035	75167	116664	62693	95991

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 3S-2000-385-CL TO 14S-8300-985-CL

					Operating supply pressure (bar g)								
	MOP				9			10			12		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
3S-2000-385-CL	12.0	10845	5668	7860	17212	8553	12122	20039	10244	14928	25692	13613	20540
3S-2000-435-CL	10.0	10821	5652	7831	24222	12738	19081	27831	14886	22663	-	-	-
3S-2000-485-CL	7.0	10806	5642	7812	-	-	-	-	-	-	-	-	-
3S-2000-535-CL	7.0	10802	5640	7808	-	-	-	-	-	-	-	-	-
3S-2000-585-CL	5.5	10754	5608	7748	-	-	-	-	-	-	-	-	-
6S-2500-485-CL	12.0	15533	8240	11721	34895	18565	28111	40130	21686	33328	50600	27920	43761
6S-2500-535-CL	10.0	15529	8238	11716	45105	24649	38286	51476	28442	44634	-	-	-
6S-2500-585-CL	9.0	15473	8200	11646	56260	31287	49401	-	-	-	-	-	-
6S-2500-635-CL	7.0	15411	8159	11570	-	-	-	-	-	-	-	-	-
6S-2500-735-CL	6.0	15273	8067	11399	-	-	-	-	-	-	-	-	-
6S-3800-535-CL	12.0	21051	11605	17481	39420	20945	31675	45790	24743	38022	58530	32329	50718
6S-3800-585-CL	10.0	20994	11568	17411	50574	27591	42790	58191	32126	50379	-	-	-
6S-3800-635-CL	7.0	20933	11527	17335	-	-	-	-	-	-	-	-	-
6S-3800-735-CL	6.0	20795	11436	17164	-	-	-	-	-	-	-	-	-
14S-5100-635-CL	12.0	24596	13852	21159	67685	36642	56470	77640	42472	66075	97551	54134	85285
14S-5100-735-CL	10.0	24447	13752	20969	97958	54372	85678	111296	62180	98546	-	-	-
14S-5100-785-CL	9.0	24365	13697	20864	114752	64202	101880	-	-	-	-	-	-
14S-5100-835-CL	7.0	24277	13638	20752	-	-	-	-	-	-	-	-	-
14S-5100-885-CL	7.0	24184	13575	20633	-	-	-	-	-	-	-	-	-
14S-5100-935-CL	6.0	24086	13509	20507	-	-	-	-	-	-	-	-	-
14S-5400-635-CL	12.0	31902	17436	25418	63484	32656	48050	73439	38505	57655	93350	50184	76865
14S-5400-735-CL	10.0	31754	17336	25229	93757	50423	77257	107095	58240	90126	-	-	-
14S-5400-785-CL	9.0	31671	17281	25124	110551	60264	93460	-	-	-	-	-	-
14S-5400-835-CL	7.0	31584	17222	25012	-	-	-	-	-	-	-	-	-
14S-5400-885-CL	7.0	31491	17159	24893	-	-	-	-	-	-	-	-	-
14S-5400-935-CL	6.0	31392	17093	24767	-	-	-	-	-	-	-	-	-
14S-8300-735-CL	10.0	40951	22498	33067	86028	44717	66433	99365	52549	79302	-	-	-
14S-8300-785-CL	10.0	40869	22443	32962	102821	54576	82636	118036	63498	97315	-	-	-
14S-8300-835-CL	7.0	40781	22384	32850	-	-	-	-	-	-	-	-	-
14S-8300-885-CL	7.0	40688	22321	32731	-	-	-	-	-	-	-	-	-
14S-8300-935-CL	7.0	40590	22254	32605	-	-	-	-	-	-	-	-	-

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 18S-9600-835-CL TO 50S-15600-1450-CL

					Operating supply pressure (bar g)											
	MOP				3			3.5			4			4.5		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18S-9600-835-CL	10.0	66304	34048	44881	-	-	-	-	-	-	-	-	-	42714	6986	6986
18S-9600-935-CL	9.0	66083	33897	44600	-	-	-	40257	4614	4614	52664	16592	16592	65072	25424	28570
18S-9600-1000-CL	7.0	65927	33789	44400	38381	2803	2803	52574	16505	16505	66766	26480	30206	80959	35148	43908
18S-9600-1100-CL	6.0	65665	33610	44065	55966	19546	19779	73139	30402	36358	90312	40769	52937	107484	50998	69515
18S-9600-1200-CL	5.5	65378	33413	43700	75225	31675	38372	95662	43964	58102	116099	56101	77832	136536	68177	97562
18S-9600-1300-CL	4.4	65067	33199	43302	96159	44260	58582	120144	58497	81737	144129	72649	104892	168115	86765	128048
18S-9800-835-CL	10.0	83920	42715	55491	-	-	-	-	-	-	-	-	-	-	-	-
18S-9800-935-CL	9.0	83699	42564	55210	-	-	-	-	-	-	-	-	-	54608	8237	8237
18S-9800-1000-CL	7.0	83543	42456	55010	-	-	-	-	-	-	56303	9873	9873	70495	23575	23575
18S-9800-1100-CL	6.0	83281	42276	54676	-	-	-	62675	16025	16025	79848	30077	32604	97021	40725	49183
18S-9800-1200-CL	5.5	82994	42079	54310	64762	18039	18039	85199	33448	37769	105636	45945	57499	126073	58192	77229
18S-9800-1300-CL	4.5	82683	41866	53912	85695	33757	38249	109681	48383	61404	133666	62709	84560	157651	76926	107715
18S-10500-935-CL	9.0	92694	46404	58625	-	-	-	-	-	-	-	-	-	-	-	-
18S-10500-1000-CL	7.0	92538	46296	58425	-	-	-	-	-	-	-	-	-	67127	13374	13374
18S-10500-1100-CL	7.0	92276	46115	58091	-	-	-	59307	5824	5824	76480	22403	22403	93653	35620	38982
18S-10500-1200-CL	5.5	91989	45917	57725	61394	7838	7838	81831	27568	27568	102268	41008	47298	122705	53464	67028
18S-10500-1300-CL	5.0	91678	45702	57327	82327	28048	28048	106313	43500	51203	130298	58031	74359	154283	72348	97514
18S-11000-935-CL	9.0	104062	54199	73136	-	-	-	-	-	-	-	-	-	-	-	-
18S-11000-1000-CL	7.0	103905	54092	72936	-	-	-	-	-	-	-	-	-	-	-	-
18S-11000-1100-CL	7.0	103643	53913	72602	-	-	-	-	-	-	62170	8588	8588	79343	25167	25167
18S-11000-1200-CL	6.0	103357	53717	72236	-	-	-	67521	13753	13753	87958	31960	33483	108395	44779	53213
18S-11000-1300-CL	5.0	103045	53504	71839	68017	14233	14233	92003	34571	37388	115988	49402	60544	139973	63823	83699
32S-12000-1100-CL	9.0	122996	59482	72917	-	-	-	-	-	-	83120	11843	11843	103023	31599	31599
32S-12000-1200-CL	7.0	122654	59248	72493	-	-	-	89321	17998	17998	113007	40717	41509	136692	56011	65021
32S-12000-1300-CL	7.0	122283	58992	72032	89897	18570	18570	117694	43858	46163	145492	61493	73756	173289	78534	101349
32S-15000-1100-CL	10.0	143170	71238	91437	-	-	-	-	-	-	-	-	-	84759	7688	7688
32S-15000-1200-CL	7.0	142828	71006	91013	-	-	-	-	-	-	94743	17599	17599	118429	41110	41110
32S-15000-1300-CL	7.0	142457	70754	90552	-	-	-	99431	22252	22252	127229	47384	49845	155026	65052	77439
50S-15400-1100-CL	12.0	155582	73457	86600	-	-	-	-	-	-	-	-	-	108966	13785	13785
50S-15400-1200-CL	10.0	155202	73194	86129	-	-	-	-	-	-	120059	24797	24797	146376	50920	50920
50S-15400-1300-CL	7.0	154790	72908	85616	-	-	-	125268	29967	29967	156154	57893	60626	187040	77608	91285
50S-15400-1450-CL	7.0	154109	72436	84772	138861	43460	43460	177285	71491	81602	215710	95295	119744	254135	118645	157887
50S-15600-1100-CL	12.0	162630	78316	95351	-	-	-	-	-	-	-	-	-	-	-	-
50S-15600-1200-CL	9.0	162251	78055	94880	-	-	-	-	-	-	111430	16230	16230	137747	42354	42354
50S-15600-1300-CL	7.0	161838	77771	94368	-	-	-	116638	21401	21401	147524	52024	52060	178410	72200	82719
50S-15600-1450-CL	7.0	161158	77303	93523	130231	34893	34893	168656	66014	73036	207081	90002	111178	245505	113427	149321

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 18S-9600-835-CL TO 50S-15600-1450-CL

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18S-9600-835-CL	10.0	66304	34048	44881	52610	16539	16539	62505	23808	26092	72400	29952	35645	92191	41891	54751
18S-9600-935-CL	9.0	66083	33897	44600	77479	33043	40548	89886	40514	52526	102294	47912	64504	127109	62610	88461
18S-9600-1000-CL	7.0	65927	33789	44400	95151	43659	57609	109344	52099	71310	123536	60500	85012	151921	77238	112414
18S-9600-1100-CL	6.0	65665	33610	44065	124657	61162	86094	141830	71294	102673	159003	81409	119251	-	-	-
18S-9600-1200-CL	5.5	65378	33413	43700	156974	80213	117292	177411	92228	137022	-	-	-	-	-	-
18S-9600-1300-CL	4.4	65067	33199	43302	-	-	-	-	-	-	-	-	-	-	-	-
18S-9800-835-CL	10.0	83920	42715	55491	-	-	-	52042	5759	5759	61937	15312	15312	81728	31269	34418
18S-9800-935-CL	9.0	83699	42564	55210	67016	20215	20215	79423	29805	32194	91831	37551	44172	116645	52561	68128
18S-9800-1000-CL	7.0	83543	42456	55010	84688	33129	37276	98880	41857	50977	113073	50418	64679	141458	67337	92082
18S-9800-1100-CL	6.0	83281	42276	54676	114194	51091	65761	131367	61342	82340	148540	71533	98919	-	-	-
18S-9800-1200-CL	5.5	82994	42079	54310	146510	70330	96959	166947	82416	116689	-	-	-	-	-	-
18S-9800-1300-CL	4.5	82683	41866	53912	-	-	-	-	-	-	-	-	-	-	-	-
18S-10500-935-CL	9.0	92694	46404	58625	63648	10015	10015	76055	21993	21993	88463	32289	33971	113277	47758	57927
18S-10500-1000-CL	7.0	92538	46296	58425	81320	27075	27075	95512	36795	40777	109705	45578	54478	138090	62698	81881
18S-10500-1100-CL	7.0	92276	46115	58091	110826	46262	55560	127999	56652	72139	145172	66926	88718	179518	87312	121875
18S-10500-1200-CL	5.5	91989	45917	57725	143142	65715	86758	163579	77870	106488	-	-	-	-	-	-
18S-10500-1300-CL	5.0	91678	45702	57327	178269	86572	120669	-	-	-	-	-	-	-	-	-
18S-11000-935-CL	9.0	104062	54199	73136	-	-	-	61745	8178	8178	74152	20156	20156	98967	38959	44112
18S-11000-1000-CL	7.0	103905	54092	72936	67010	13260	13260	81202	26962	26962	95395	36721	40663	123780	54112	68066
18S-11000-1100-CL	7.0	103643	53913	72602	96516	37426	41745	113689	48008	58324	130862	58369	74903	165207	78834	108060
18S-11000-1200-CL	6.0	103357	53717	72236	128832	57152	72943	149269	69367	92673	169707	81500	112403	-	-	-
18S-11000-1300-CL	5.0	103045	53504	71839	163959	78095	106854	-	-	-	-	-	-	-	-	-
32S-12000-1100-CL	9.0	122996	59482	72917	122925	47271	51355	142827	59838	71111	162730	72096	90867	202534	96234	130379
32S-12000-1200-CL	7.0	122654	59248	72493	160378	70656	88532	184063	85075	112043	207748	99373	135555	255119	127800	182577
32S-12000-1300-CL	7.0	122283	58992	72032	201087	95363	128942	228884	112078	156535	256682	128734	184128	312277	161937	239315
32S-15000-1100-CL	10.0	143170	71238	91437	104662	27444	27444	124564	45612	47200	144466	58453	66956	184271	83014	106469
32S-15000-1200-CL	7.0	142828	71006	91013	142114	56971	64622	165800	71714	88133	189485	86185	111644	236856	114793	158667
32S-15000-1300-CL	7.0	142457	70754	90552	182824	82131	105032	210621	98986	132625	238419	115734	160218	294014	149033	215404
50S-15400-1100-CL	12.0	155582	73457	86600	131080	35736	35736	153193	55915	57687	175307	70244	79638	219534	97630	123541
50S-15400-1200-CL	10.0	155202	73194	86129	172694	68586	77044	199011	85030	103168	225328	101164	129291	277962	133020	181539
50S-15400-1300-CL	7.0	154790	72908	85616	217926	96649	121944	248812	115428	152603	279698	134065	183262	341471	171129	244580
50S-15400-1450-CL	7.0	154109	72436	84772	292560	141807	196029	330985	164858	234172	369410	187837	272314	446259	233691	348599
50S-15600-1100-CL	12.0	162630	78316	95351	122450	27170	27170	144564	49121	49121	166677	64747	71072	210905	92348	114974
50S-15600-1200-CL	9.0	162251	78055	94880	164064	63062	68478	190381	79685	94601	216698	95899	120725	269332	127825	172972
50S-15600-1300-CL	7.0	161838	77771	94368	209296	91361	113378	240183	110195	144037	271069	128871	174696	332841	165968	236014
50S-15600-1450-CL	7.0	161158	77303	93523	283930	136613	187463	322355	159684	225605	360780	182676	263748	437630	228544	340033

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO CLOSE. MODELS 18S-9600-835-CL TO 50S-15600-1450-CL

					Operating supply pressure (bar g)								
	MOP				9			10			12		
Model	(bar g)	BTC	RTC	ETC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
18S-9600-835-CL	10.0	66304	34048	44881	131.772	65.364	92.963	151.563	77.027	112.069	-	-	-
18S-9600-935-CL	9.0	66083	33897	44600	176.738	91.833	136.373	-	-	-	-	-	-
18S-9600-1000-CL	7.0	65927	33789	44400	-	-	-	-	-	-	-	-	-
18S-9600-1100-CL	6.0	65665	33610	44065	-	-	-	-	-	-	-	-	-
18S-9600-1200-CL	5.5	65378	33413	43700	-	-	-	-	-	-	-	-	-
18S-9600-1300-CL	4.4	65067	33199	43302	-	-	-	-	-	-	-	-	-
18S-9800-835-CL	10.0	83920	42715	55491	121.309	55.348	72.630	141.100	67.125	91.736	-	-	-
18S-9800-935-CL	9.0	83699	42564	55210	166.275	82.019	116.040	-	-	-	-	-	-
18S-9800-1000-CL	7.0	83543	42456	55010	-	-	-	-	-	-	-	-	-
18S-9800-1100-CL	6.0	83281	42276	54676	-	-	-	-	-	-	-	-	-
18S-9800-1200-CL	5.5	82994	42079	54310	-	-	-	-	-	-	-	-	-
18S-9800-1300-CL	4.5	82683	41866	53912	-	-	-	-	-	-	-	-	-
18S-10500-935-CL	9.0	92694	46404	58625	162.907	77.472	105.839	-	-	-	-	-	-
18S-10500-1000-CL	7.0	92538	46296	58425	-	-	-	-	-	-	-	-	-
18S-10500-1100-CL	7.0	92276	46115	58091	-	-	-	-	-	-	-	-	-
18S-10500-1200-CL	5.5	91989	45917	57725	-	-	-	-	-	-	-	-	-
18S-10500-1300-CL	5.0	91678	45702	57327	-	-	-	-	-	-	-	-	-
18S-11000-935-CL	9.0	104062	54199	73136	148.597	68.967	92.024	173.412	83.695	115.981	-	-	-
18S-11000-1000-CL	7.0	103905	54092	72936	-	-	-	-	-	-	-	-	-
18S-11000-1100-CL	7.0	103643	53913	72602	-	-	-	-	-	-	-	-	-
18S-11000-1200-CL	6.0	103357	53717	72236	-	-	-	-	-	-	-	-	-
18S-11000-1300-CL	5.0	103045	53504	71839	-	-	-	-	-	-	-	-	-
32S-12000-1100-CL	9.0	122996	59482	72917	282.144	143.961	209.403	-	-	-	-	-	-
32S-12000-1200-CL	7.0	122654	59248	72493	-	-	-	-	-	-	-	-	-
32S-12000-1300-CL	7.0	122283	58992	72032	-	-	-	-	-	-	-	-	-
32S-15000-1100-CL	10.0	143170	71238	91437	263.880	131.007	185.493	303.685	154.817	225.005	-	-	-
32S-15000-1200-CL	7.0	142828	71006	91013	-	-	-	-	-	-	-	-	-
32S-15000-1300-CL	7.0	142457	70754	90552	-	-	-	-	-	-	-	-	-
50S-15400-1100-CL	12.0	155582	73457	86600	307.989	151.066	211.345	352.217	177.555	255.247	440.672	230.358	343.052
50S-15400-1200-CL	10.0	155202	73194	86129	383.231	196.095	286.033	435.865	227.491	338.281	-	-	-
50S-15400-1300-CL	7.0	154790	72908	85616	-	-	-	-	-	-	-	-	-
50S-15400-1450-CL	7.0	154109	72436	84772	-	-	-	-	-	-	-	-	-
50S-15600-1100-CL	12.0	162630	78316	95351	299.360	145.890	202.779	343.587	172.395	246.681	432.042	225.211	334.486
50S-15600-1200-CL	9.0	162251	78055	94880	374.601	190.942	277.467	427.235	222.344	329.715	-	-	-
50S-15600-1300-CL	7.0	161838	77771	94368	-	-	-	-	-	-	-	-	-
50S-15600-1450-CL	7.0	161158	77303	93523	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 0.1S-006A-085-OP TO 1.5S-1200-585-OP

					Operating supply pressure (bar g)											
					3			3.5			4			4.5		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
0.1S-006A-085-OP	12.0	69	30	35	65	25	27	86	39	50	107	52	72	129	66	95
0.1S-006A-100-OP	12.0	67	29	32	112	55	77	141	73	109	170	91	140	200	109	172
0.1S-006B-085-OP	12.0	122	50	52	-	-	-	-	-	-	86	7	7	107	30	30
0.1S-006B-100-OP	12.0	119	48	49	90	12	12	119	43	43	149	64	75	178	82	106
0.1S-006C-085-OP	12.0	160	65	67	-	-	-	-	-	-	-	-	-	-	-	-
0.1S-006C-100-OP	12.0	158	63	64	-	-	-	-	-	-	131	27	27	160	59	59
0.3S-008A-100-OP	12.0	217	95	110	-	-	-	-	-	-	146	22	22	185	64	64
0.3S-008A-135-OP	12.0	209	90	101	250	111	135	320	154	210	390	198	285	460	241	360
0.3S-008B-100-OP	12.0	328	102	102	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-008B-135-OP	12.0	320	93	93	-	-	-	315	72	72	385	146	147	454	193	222
0.3S-008C-100-OP	12.0	396	134	134	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-008C-135-OP	12.0	388	125	125	-	-	-	-	-	-	348	62	62	418	137	137
0.3S-0100-135-OP	12.0	641	268	286	-	-	-	-	-	-	-	-	-	-	-	-
0.3S-0100-175-OP	12.0	632	261	275	-	-	-	426	21	21	543	147	147	660	260	274
0.3S-0100-235-OP	7.0	617	251	258	858	389	487	1069	521	714	1281	652	942	1492	782	1170
0.3S-0150-175-OP	12.0	810	382	480	-	-	-	-	-	-	-	-	-	455	52	52
0.3S-0150-235-OP	7.0	796	372	463	652	255	265	864	392	493	1075	525	720	1286	655	948
0.9S-0200-235-OP	12.0	1027	470	566	715	174	174	959	395	437	1204	551	700	1448	704	964
0.9S-0200-280-OP	12.0	1010	458	547	1312	620	818	1659	836	1192	2006	1050	1566	2353	1263	1939
0.9S-0200-335-OP	9.0	997	450	532	2198	1167	1772	2694	1472	2307	3191	1776	2842	3688	2080	3377
0.9S-0250-235-OP	12.0	1251	617	823	-	-	-	701	159	159	946	386	423	1190	543	686
0.9S-0250-280-OP	12.0	1234	606	803	1055	457	540	1401	675	914	1748	891	1288	2095	1104	1661
0.9S-0250-335-OP	10.0	1222	598	789	1940	1009	1494	2436	1314	2029	2933	1618	2564	3430	1922	3099
0.9S-0350-280-OP	12.0	1961	910	1119	-	-	-	-	-	-	1382	387	387	1729	701	761
0.9S-0350-335-OP	10.0	1949	902	1104	1573	593	593	2070	921	1129	2566	1234	1664	3063	1542	2199
0.9S-0350-385-OP	7.0	1934	892	1087	2513	1201	1607	3169	1608	2314	3825	2012	3020	4481	2415	3727
0.9S-0350-435-OP	6.0	1922	884	1074	3590	1867	2767	4427	2382	3669	5265	2896	4571	6102	3408	5474
0.9S-0350-485-OP	5.0	1914	879	1065	4804	2613	4075	5845	3251	5196	6886	3888	6318	7927	4524	7440
0.9S-0400-280-OP	12.0	2350	1165	1564	-	-	-	-	-	-	-	-	-	1282	279	279
0.9S-0400-335-OP	10.0	2338	1157	1549	-	-	-	1622	629	647	2119	953	1182	2616	1265	1717
0.9S-0400-385-OP	7.0	2323	1147	1532	2066	919	1125	2722	1331	1832	3378	1737	2538	4034	2141	3245
0.9S-0400-435-OP	6.0	2311	1140	1519	3142	1591	2285	3980	2108	3187	4817	2622	4089	5655	3135	4992
0.9S-0400-485-OP	5.0	2303	1135	1510	4356	2339	3593	5397	2977	4714	6438	3614	5836	7479	4251	6958
0.9S-0700-335-OP	10.0	3305	1589	2047	-	-	-	-	-	-	-	-	-	2057	518	518
0.9S-0700-385-OP	7.0	3290	1579	2030	-	-	-	2163	633	633	2819	1182	1340	3475	1601	2047
0.9S-0700-435-OP	6.0	3278	1572	2017	2584	1026	1086	3421	1567	1988	4259	2090	2891	5096	2609	3793
0.9S-0700-485-OP	5.0	3271	1567	2008	3798	1803	2394	4839	2450	3516	5880	3092	4637	6921	3731	5759
1.5S-1100-385-OP	12.0	6777	2589	2847	-	-	-	-	-	-	-	-	-	-	-	-
1.5S-1100-435-OP	9.0	6761	2579	2831	-	-	-	-	-	-	4267	1163	1163	5236	2329	2400
1.5S-1100-485-OP	7.0	6750	2572	2822	3733	481	481	4938	2020	2020	6143	2977	3559	7347	3809	5098
1.5S-1100-535-OP	6.0	6748	2571	2819	5298	2375	2480	6764	3409	4353	8230	4409	6225	9696	5397	8098
1.5S-1100-585-OP	5.0	6716	2550	2788	6991	3564	4642	8743	4756	6881	10496	5934	9119	12249	7107	11358
1.5S-1200-385-OP	12.0	7926	3315	3990	-	-	-	-	-	-	-	-	-	-	-	-
1.5S-1200-435-OP	10.0	7910	3305	3975	-	-	-	-	-	-	-	-	-	4090	977	977
1.5S-1200-485-OP	7.0	7900	3299	3965	-	-	-	3792	596	596	4997	2135	2135	6201	3031	3674
1.5S-1200-535-OP	6.0	7898	3297	3963	4152	1056	1056	5618	2620	2929	7084	3640	4801	8550	4636	6674
1.5S-1200-585-OP	5.5	7865	3278	3931	5845	2780	3218	7597	3990	5457	9350	5175	7696	11103	6351	9934

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 0.1S-006A-085-OP TO 1.5S-1200-585-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
0.1S-006A-085-OP	12.0	69	30	35	150	79	118	171	92	141	192	105	164	235	131	210
0.1S-006A-100-OP	12.0	67	29	32	229	127	204	258	145	235	288	163	267	346	199	330
0.1S-006B-085-OP	12.0	122	50	52	128	50	53	149	64	76	171	78	99	213	104	144
0.1S-006B-100-OP	12.0	119	48	49	207	101	138	237	119	170	266	137	201	325	173	265
0.1S-006C-085-OP	12.0	160	65	67	111	5	5	132	28	28	153	51	51	195	83	97
0.1S-006C-100-OP	12.0	158	63	64	190	79	90	219	98	122	249	117	154	307	153	217
0.3S-008A-100-OP	12.0	217	95	110	223	93	105	261	117	146	299	141	187	376	189	270
0.3S-008A-135-OP	12.0	209	90	101	529	284	435	599	326	510	669	369	585	808	454	736
0.3S-008B-100-OP	12.0	328	102	102	-	-	-	256	8	8	294	50	50	371	132	132
0.3S-008B-135-OP	12.0	320	93	93	524	237	297	594	281	372	664	325	448	803	411	598
0.3S-008C-100-OP	12.0	396	134	134	-	-	-	-	-	-	-	-	-	334	47	47
0.3S-008C-135-OP	12.0	388	125	125	488	197	212	557	242	288	627	286	363	767	374	513
0.3S-0100-135-OP	12.0	641	268	286	-	-	-	-	-	-	453	50	50	592	200	200
0.3S-0100-175-OP	12.0	632	261	275	778	337	400	895	412	526	1012	485	652	1246	631	905
0.3S-0100-235-OP	7.0	617	251	258	1704	912	1398	1915	1042	1625	2126	1171	1853	2549	1430	2309
0.3S-0150-175-OP	12.0	810	382	480	572	178	178	689	280	304	806	356	431	1041	503	683
0.3S-0150-235-OP	7.0	796	372	463	1498	786	1176	1709	916	1404	1921	1045	1631	2343	1304	2087
0.9S-0200-235-OP	12.0	1027	470	566	1692	856	1227	1937	1007	1491	2181	1157	1754	2670	1457	2281
0.9S-0200-280-OP	12.0	1010	458	547	2700	1476	2313	3047	1688	2687	3394	1901	3061	4088	2325	3809
0.9S-0200-335-OP	9.0	997	450	532	4184	2384	3912	4681	2687	4448	5178	2991	4983	6171	3598	6053
0.9S-0250-235-OP	12.0	1251	617	823	1434	696	949	1679	848	1213	1923	998	1476	2412	1299	2003
0.9S-0250-280-OP	12.0	1234	606	803	2442	1318	2035	2789	1530	2409	3136	1743	2783	3830	2167	3531
0.9S-0250-335-OP	10.0	1222	598	789	3926	2226	3634	4423	2530	4170	4920	2833	4705	5913	3440	5775
0.9S-0350-280-OP	12.0	1961	910	1119	2076	925	1135	2423	1144	1509	2770	1360	1883	3464	1790	2631
0.9S-0350-335-OP	10.0	1949	902	1104	3560	1849	2734	4056	2154	3269	4553	2459	3805	5546	3068	4875
0.9S-0350-385-OP	7.0	1934	892	1087	5137	2818	4434	5793	3219	5141	6449	3621	5848	7761	4423	7262
0.9S-0350-435-OP	6.0	1922	884	1074	6939	3921	6376	7777	4433	7279	8614	4945	8181	-	-	-
0.9S-0350-485-OP	5.0	1914	879	1065	8968	5161	8562	-	-	-	-	-	-	-	-	-
0.9S-0400-280-OP	12.0	2350	1165	1564	1628	633	653	1975	861	1027	2322	1081	1401	3016	1513	2149
0.9S-0400-335-OP	10.0	2338	1157	1549	3112	1573	2252	3609	1879	2787	4106	2185	3323	5099	2794	4393
0.9S-0400-385-OP	7.0	2323	1147	1532	4690	2543	3952	5346	2945	4659	6002	3347	5366	7314	4150	6780
0.9S-0400-435-OP	6.0	2311	1140	1519	6492	3647	5894	7330	4159	6797	8167	4672	7699	-	-	-
0.9S-0400-485-OP	5.0	2303	1135	1510	8520	4887	8080	-	-	-	-	-	-	-	-	-
0.9S-0700-335-OP	10.0	3305	1589	2047	2554	1005	1054	3050	1331	1589	3547	1646	2124	4540	2265	3194
0.9S-0700-385-OP	7.0	3290	1579	2030	4131	2011	2754	4787	2418	3460	5443	2823	4167	6755	3630	5581
0.9S-0700-435-OP	6.0	3278	1572	2017	5933	3125	4696	6771	3639	5598	7608	4153	6500	-	-	-
0.9S-0700-485-OP	5.0	3271	1567	2008	7961	4369	6881	-	-	-	-	-	-	-	-	-
1.5S-1100-385-OP	12.0	6777	2589	2847	4120	974	974	4879	1944	1944	5638	2621	2914	7156	3678	4853
1.5S-1100-435-OP	9.0	6761	2579	2831	6205	3021	3638	7174	3690	4876	8143	4350	6114	10081	5656	8590
1.5S-1100-485-OP	7.0	6750	2572	2822	8552	4627	6636	9757	5438	8175	10961	6246	9714	13371	7856	12792
1.5S-1100-535-OP	6.0	6748	2571	2819	11162	6380	9970	12628	7360	11843	14094	8338	13715	-	-	-
1.5S-1100-585-OP	5.0	6716	2550	2788	14001	8276	13597	-	-	-	-	-	-	-	-	-
1.5S-1200-385-OP	12.0	7926	3315	3990	-	-	-	3733	520	520	4492	1490	1490	6010	2897	3429
1.5S-1200-435-OP	10.0	7910	3305	3975	5059	2211	2215	6028	2910	3452	6997	3581	4690	8935	4896	7166
1.5S-1200-485-OP	7.0	7900	3299	3965	7406	3860	5213	8611	4677	6751	9815	5488	8290	12225	7101	11368
1.5S-1200-535-OP	6.0	7898	3297	3963	10016	5622	8546	11482	6604	10419	12948	7583	12291	-	-	-
1.5S-1200-585-OP	5.5	7865	3278	3931	12855	7522	12173	14608	8691	14412	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
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RTO: Run to Open
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 0.1S-006A-085-OP TO 1.5S-1200-585-OP

					Operating supply pressure (bar g)								
	MOP				9			10			12		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
0.1S-006A-085-OP	12.0	69	30	35	320	183	301	362	208	347	447	260	438
0.1S-006A-100-OP	12.0	67	29	32	464	271	457	523	307	520	640	378	647
0.1S-006B-085-OP	12.0	122	50	52	298	157	236	340	183	281	425	235	373
0.1S-006B-100-OP	12.0	119	48	49	442	245	391	501	281	455	618	353	581
0.1S-006C-085-OP	12.0	160	65	67	280	137	188	323	163	234	408	215	325
0.1S-006C-100-OP	12.0	158	63	64	425	226	344	483	262	407	601	334	533
0.3S-008A-100-OP	12.0	217	95	110	529	283	435	606	330	517	759	424	682
0.3S-008A-135-OP	12.0	209	90	101	1087	625	1036	1227	710	1187	1506	881	1487
0.3S-008B-100-OP	12.0	328	102	102	524	237	297	600	285	379	754	380	544
0.3S-008B-135-OP	12.0	320	93	93	1082	583	899	1222	668	1049	1501	839	1350
0.3S-008C-100-OP	12.0	396	134	134	487	196	212	564	246	295	717	343	459
0.3S-008C-135-OP	12.0	388	125	125	1046	546	814	1185	632	964	1464	803	1265
0.3S-0100-135-OP	12.0	641	268	286	871	397	501	1011	484	651	1290	657	952
0.3S-0100-175-OP	12.0	632	261	275	1715	919	1410	1950	1063	1663	2419	1350	2168
0.3S-0100-235-OP	7.0	617	251	258	-	-	-	-	-	-	-	-	-
0.3S-0150-175-OP	12.0	810	382	480	1510	793	1189	1744	937	1441	2213	1224	1946
0.3S-0150-235-OP	7.0	796	372	463	-	-	-	-	-	-	-	-	-
0.9S-0200-235-OP	12.0	1027	470	566	3648	2056	3334	4136	2355	3861	5114	2952	4914
0.9S-0200-280-OP	12.0	1010	458	547	5476	3173	5304	6170	3597	6052	7558	4445	7548
0.9S-0200-335-OP	9.0	997	450	532	8157	4811	8194	-	-	-	-	-	-
0.9S-0250-235-OP	12.0	1251	617	823	3390	1898	3056	3878	2197	3583	4856	2794	4636
0.9S-0250-280-OP	12.0	1234	606	803	5218	3016	5026	5912	3440	5774	7300	4287	7270
0.9S-0250-335-OP	10.0	1222	598	789	7899	4654	7916	8893	5260	8986	-	-	-
0.9S-0350-280-OP	12.0	1961	910	1119	4851	2642	4126	5545	3068	4874	6933	3917	6369
0.9S-0350-335-OP	10.0	1949	902	1104	7533	4284	7016	8526	4891	8086	-	-	-
0.9S-0350-385-OP	7.0	1934	892	1087	-	-	-	-	-	-	-	-	-
0.9S-0350-435-OP	6.0	1922	884	1074	-	-	-	-	-	-	-	-	-
0.9S-0350-485-OP	5.0	1914	879	1065	-	-	-	-	-	-	-	-	-
0.9S-0400-280-OP	12.0	2350	1165	1564	4404	2368	3644	5098	2794	4392	6486	3643	5887
0.9S-0400-335-OP	10.0	2338	1157	1549	7086	4010	6534	8079	4618	7604	-	-	-
0.9S-0400-385-OP	7.0	2323	1147	1532	-	-	-	-	-	-	-	-	-
0.9S-0400-435-OP	6.0	2311	1140	1519	-	-	-	-	-	-	-	-	-
0.9S-0400-485-OP	5.0	2303	1135	1510	-	-	-	-	-	-	-	-	-
0.9S-0700-335-OP	10.0	3305	1589	2047	6527	3489	5335	7520	4099	6405	-	-	-
0.9S-0700-385-OP	7.0	3290	1579	2030	-	-	-	-	-	-	-	-	-
0.9S-0700-435-OP	6.0	3278	1572	2017	-	-	-	-	-	-	-	-	-
0.9S-0700-485-OP	5.0	3271	1567	2008	-	-	-	-	-	-	-	-	-
1.5S-1100-385-OP	12.0	6777	2589	2847	10192	5731	8732	11711	6747	10671	14747	8774	14550
1.5S-1100-435-OP	9.0	6761	2579	2831	13958	8247	13542	-	-	-	-	-	-
1.5S-1100-485-OP	7.0	6750	2572	2822	-	-	-	-	-	-	-	-	-
1.5S-1100-535-OP	6.0	6748	2571	2819	-	-	-	-	-	-	-	-	-
1.5S-1100-585-OP	5.0	6716	2550	2788	-	-	-	-	-	-	-	-	-
1.5S-1200-385-OP	12.0	7926	3315	3990	9046	4971	7308	10565	5991	9247	13601	8019	13126
1.5S-1200-435-OP	10.0	7910	3305	3975	12812	7493	12118	14750	8786	14594	-	-	-
1.5S-1200-485-OP	7.0	7900	3299	3965	-	-	-	-	-	-	-	-	-
1.5S-1200-535-OP	6.0	7898	3297	3963	-	-	-	-	-	-	-	-	-
1.5S-1200-585-OP	5.5	7865	3278	3931	-	-	-	-	-	-	-	-	-

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 3S-2000-385-OP TO 14S-8300-985-OP

					Operating supply pressure (bar g)											
					3			3.5			4			4.5		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
3S-2000-385-OP	12	11460	5082	6413	-	-	-	-	-	-	-	-	-	-	-	-
3S-2000-435-OP	10	11434	5066	6386	-	-	-	-	-	-	5655	1417	1417	7284	3231	3439
3S-2000-485-OP	7	11417	5056	6370	4758	304	304	6783	2818	2818	8808	4293	5331	10832	5660	7845
3S-2000-535-OP	7	11413	5054	6366	7389	3306	3570	9853	5002	6629	12316	6649	9688	14780	8281	12746
3S-2000-585-OP	6	11360	5021	6313	10233	5258	7101	13179	7221	10758	16124	9168	14416	19070	11107	18073
6S-2500-485-OP	12	16307	7415	9589	-	-	-	-	-	-	8100	2527	2527	10472	4816	5461
6S-2500-535-OP	10	16303	7412	9585	6438	471	471	9324	3994	4041	12210	6011	7610	15097	7949	11180
6S-2500-585-OP	9	16240	7374	9523	9769	4318	4592	13220	6693	8860	16671	8996	13128	20122	11276	17396
6S-2500-635-OP	7	16172	7333	9455	13399	6813	9080	17465	9522	14109	21531	12205	19138	25597	14876	24167
6S-2500-735-OP	6	16020	7240	9303	21550	12217	19161	26997	15794	25899	32445	19366	32637	37892	22937	39374
6S-3800-535-OP	12	22273	10680	14589	-	-	-	-	-	-	7090	214	214	9976	3784	3784
6S-3800-585-OP	10	22211	10642	14527	-	-	-	8100	1463	1463	11551	5212	5731	15002	7579	10000
6S-3800-635-OP	7	22143	10601	14459	8278	1684	1684	12344	5768	6713	16410	8524	11742	20476	11225	16771
6S-3800-735-OP	6	21991	10510	14307	16429	8537	11765	21877	12151	18502	27324	15736	25240	32772	19309	31978
14S-5100-635-OP	12	27158	12811	17370	-	-	-	11347	4235	4235	15715	7832	9814	20082	10813	15393
14S-5100-735-OP	10	26989	12711	17207	15735	7846	9840	21586	11828	17314	27438	15755	24789	33289	19661	32264
14S-5100-785-OP	9	26895	12655	17117	20592	11158	16044	27266	15640	24570	33941	20096	33096	40615	24549	41622
14S-5100-835-OP	7	26795	12596	17020	25768	14638	22656	33320	19682	32303	40872	24720	41950	48424	29758	51597
14S-5100-885-OP	7	26689	12533	16918	31264	18310	29676	39747	23970	40513	48231	29629	51350	56714	35286	62187
14S-5100-935-OP	6	26577	12466	16809	37079	22190	37105	46548	28507	49201	56017	34821	61297	65486	41130	73393
14S-5400-635-OP	12	35100	15878	20665	-	-	-	-	-	-	11985	-24	-24	16352	5555	5555
14S-5400-735-OP	10	34931	15777	20502	-	-	-	17856	7476	7476	23708	11858	14951	29559	15853	22425
14S-5400-785-OP	9	34837	15721	20412	16862	6206	6206	23536	11740	14732	30211	16294	23258	36885	20787	31784
14S-5400-835-OP	7	34737	15661	20315	22038	10698	12818	29590	15874	22465	37142	20959	32112	44694	26011	41758
14S-5400-885-OP	7	34631	15598	20213	27534	14479	19838	36017	20204	30675	44501	25882	41512	52984	31541	52349
14S-5400-935-OP	6	34519	15530	20104	33349	18411	27267	42818	24758	39363	52287	31077	51459	61756	37394	63554
14S-8300-735-OP	10	44975	20479	26826	-	-	-	-	-	-	17029	2508	2508	22880	9983	9983
14S-8300-785-OP	10	44881	20423	26736	-	-	-	16857	2289	2289	23532	10477	10815	30207	15195	19342
14S-8300-835-OP	9	44781	20363	26639	-	-	-	22911	10013	10022	30463	15372	19669	38015	20517	29316
14S-8300-885-OP	7	44675	20300	26537	20855	7396	7396	29338	14595	18233	37822	20386	29069	46305	26097	39906
14S-8300-935-OP	7	44563	20233	26428	26670	12733	14824	36139	19248	26920	45609	25629	39016	55078	31968	51112

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 3S-2000-385-OP TO 14S-8300-985-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
3S-2000-385-OP	12	11460	5082	6413	5407	1110	1110	6683	2694	2694	7959	3708	4278	10511	5444	7446
3S-2000-435-OP	10	11434	5066	6386	8913	4365	5462	10541	5465	7484	12170	6552	9506	15428	8709	13551
3S-2000-485-OP	7	11417	5056	6370	12857	7008	10359	14882	8348	12873	16907	9683	15387	20956	12346	20415
3S-2000-535-OP	7	11413	5054	6366	17244	9905	15805	19708	11526	18864	22171	13144	21923	27099	16382	28041
3S-2000-585-OP	6	11360	5021	6313	22016	13042	21730	24962	14978	25388	27908	16913	29045	-	-	-
6S-2500-485-OP	12	16307	7415	9589	12844	6440	8394	15216	8029	11328	17588	9603	14262	22332	12731	20129
6S-2500-535-OP	10	16303	7412	9585	17983	9864	14750	20869	11769	18320	23755	13667	21890	29528	17453	29029
6S-2500-585-OP	9	16240	7374	9523	23573	13547	21664	27024	15812	25933	30475	18074	30201	37377	22600	38737
6S-2500-635-OP	7	16172	7333	9455	29663	17542	29196	33729	20208	34225	37795	22874	39254	45928	28205	49312
6S-2500-735-OP	6	16020	7240	9303	43340	26509	46112	48788	30080	52850	54235	33652	59587	-	-	-
6S-3800-535-OP	12	22273	10680	14589	12862	6126	7353	15748	8081	10923	18635	10005	14493	24407	13819	21632
6S-3800-585-OP	10	22211	10642	14527	18453	9884	14268	21904	12169	18536	25355	14442	22804	32257	18972	31341
6S-3800-635-OP	7	22143	10601	14459	24542	13908	21800	28609	16580	26829	32675	19246	31858	40807	24577	41916
6S-3800-735-OP	6	21991	10510	14307	38219	22881	38715	43667	26453	45453	49115	30024	52191	-	-	-
14S-5100-635-OP	12	27158	12811	17370	24450	13754	20972	28817	16678	26551	33185	19592	32130	41920	25419	43288
14S-5100-735-OP	10	26989	12711	17207	39140	23565	39738	44992	27469	47213	50843	31372	54687	62546	39171	69636
14S-5100-785-OP	9	26895	12655	17117	47290	29002	50148	53965	33454	58675	60639	37900	67201	73988	46793	84253
14S-5100-835-OP	7	26795	12596	17020	55976	34794	61244	63528	39825	70890	71080	44856	80537	86183	54910	99831
14S-5100-885-OP	7	26689	12533	16918	65198	40937	73024	73681	46589	83860	82164	52235	94697	99131	63527	116371
14S-5100-935-OP	6	26577	12466	16809	74956	47438	85488	84425	53740	97584	93894	60041	109680	-	-	-
14S-5400-635-OP	12	35100	15878	20665	20720	9770	11134	25087	12808	16713	29455	15783	22292	38190	21662	33450
14S-5400-735-OP	10	34931	15777	20502	35410	19797	29900	41262	23717	37374	47113	27625	44849	58816	35432	59798
14S-5400-785-OP	9	34837	15721	20412	43560	25254	40310	50235	29707	48836	56909	34160	57362	70258	43065	74415
14S-5400-835-OP	7	34737	15661	20315	52246	31049	51405	59798	36087	61052	67350	41125	70699	82453	51198	89993
14S-5400-885-OP	7	34631	15598	20213	61468	37201	63185	69951	42860	74022	78434	48520	84859	95401	59824	106532
14S-5400-935-OP	6	34519	15530	20104	71226	43711	75650	80695	50027	87746	90164	56335	99842	-	-	-
14S-8300-735-OP	10	44975	20479	26826	28732	14174	17457	34583	18190	24932	40434	22150	32407	52137	30001	47356
14S-8300-785-OP	10	44881	20423	26736	36881	19750	27868	43556	24251	36394	50230	28726	44920	63580	37639	61972
14S-8300-835-OP	9	44781	20363	26639	45567	25601	38963	53119	30658	48610	60671	35699	58257	75775	45775	77550
14S-8300-885-OP	7	44675	20300	26537	54789	31775	50743	63272	37434	61580	71756	43094	72416	88723	54413	94090
14S-8300-935-OP	7	44563	20233	26428	64547	38285	63208	74016	44602	75304	83485	50919	87400	102423	63550	111591

NOTES

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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 3S-2000-385-OP TO 14S-8300-985-OP

					Operating supply pressure (bar g)								
	MOP					9			10			12	
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
3S-2000-385-OP	12	11460	5082	6413	15614	8832	13782	18166	10513	16951	23270	13866	23287
3S-2000-435-OP	10	11434	5066	6386	21943	12994	21640	25201	15134	25684	-	-	-
3S-2000-485-OP	7	11417	5056	6370	-	-	-	-	-	-	-	-	-
3S-2000-535-OP	7	11413	5054	6366	-	-	-	-	-	-	-	-	-
3S-2000-585-OP	6	11360	5021	6313	-	-	-	-	-	-	-	-	-
6S-2500-485-OP	12	16307	7415	9589	31820	18956	31864	36564	22066	37731	46052	28287	49466
6S-2500-535-OP	10	16303	7412	9585	41073	25023	43308	46846	28807	50448	-	-	-
6S-2500-585-OP	9	16240	7374	9523	51181	31650	55810	-	-	-	-	-	-
6S-2500-635-OP	7	16172	7333	9455	-	-	-	-	-	-	-	-	-
6S-2500-735-OP	6	16020	7240	9303	-	-	-	-	-	-	-	-	-
6S-3800-535-OP	12	22273	10680	14589	35953	21395	35912	41725	25179	43051	53270	32749	57330
6S-3800-585-OP	10	22211	10642	14527	46061	28022	48413	52963	32547	56950	-	-	-
6S-3800-635-OP	7	22143	10601	14459	-	-	-	-	-	-	-	-	-
6S-3800-735-OP	6	21991	10510	14307	-	-	-	-	-	-	-	-	-
14S-5100-635-OP	12	27158	12811	17370	59390	37068	65605	68125	42887	76763	85595	54518	99079
14S-5100-735-OP	10	26989	12711	17207	85952	54756	99535	97654	62544	114484	-	-	-
14S-5100-785-OP	9	26895	12655	17117	100687	64562	118358	-	-	-	-	-	-
14S-5100-835-OP	7	26795	12596	17020	-	-	-	-	-	-	-	-	-
14S-5100-885-OP	7	26689	12533	16918	-	-	-	-	-	-	-	-	-
14S-5100-935-OP	6	26577	12466	16809	-	-	-	-	-	-	-	-	-
14S-5400-635-OP	12	35100	15878	20665	55660	33326	55766	64395	39154	66925	81865	50806	89241
14S-5400-735-OP	10	34931	15777	20502	82222	51044	89697	93925	58840	104646	-	-	-
14S-5400-785-OP	9	34837	15721	20412	96957	60860	108519	-	-	-	-	-	-
14S-5400-835-OP	7	34737	15661	20315	-	-	-	-	-	-	-	-	-
14S-5400-885-OP	7	34631	15598	20213	-	-	-	-	-	-	-	-	-
14S-5400-935-OP	6	34519	15530	20104	-	-	-	-	-	-	-	-	-
14S-8300-735-OP	10	44975	20479	26826	75543	45620	77254	87246	53427	92203	-	-	-
14S-8300-785-OP	10	44881	20423	26736	90278	55450	96077	103627	64352	113129	-	-	-
14S-8300-835-OP	9	44781	20363	26639	105982	65922	116138	-	-	-	-	-	-
14S-8300-885-OP	7	44675	20300	26537	-	-	-	-	-	-	-	-	-
14S-8300-935-OP	7	44563	20233	26428	-	-	-	-	-	-	-	-	-

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 18S-9600-835-OP TO 50S-15600-1450-OP

					Operating supply pressure (bar g)											
					3			3.5			4			4.5		
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
18S-9600-835-OP	12.0	71007	29097	34300	-	-	-	-	-	-	-	-	-	38605	9520	9520
18S-9600-935-OP	9.0	70755	28943	34057	-	-	-	36447	6766	6766	47340	20669	20672	58233	28479	34578
18S-9600-1000-OP	7.0	70577	28833	33885	34800	4664	4664	47261	20571	20571	59721	29514	36478	72181	38054	52385
18S-9600-1100-OP	7.0	70279	28650	33597	50239	22812	24372	65316	33370	43620	80393	43616	62867	95470	53755	82115
18S-9600-1200-OP	5.5	69952	28449	33282	67147	34624	45958	85090	46782	68864	103033	58821	91770	120976	70806	114676
18S-9600-1300-OP	5.0	69598	28232	32940	85526	47075	69421	106584	61196	96304	127642	75252	123187	148700	89295	150069
18S-9800-835-OP	12.0	90360	36648	42752	-	-	-	-	-	-	-	-	-	-	-	-
18S-9800-935-OP	10.0	90109	36493	42509	-	-	-	-	-	-	-	-	-	-	-	-
18S-9800-1000-OP	9.0	89930	36383	42337	-	-	-	-	-	-	50246	12503	12503	62707	27761	28410
18S-9800-1100-OP	7.0	89632	36198	42049	-	-	-	55841	19646	19646	70918	33683	38893	85995	44140	58141
18S-9800-1200-OP	6.0	89306	35996	41734	57673	21984	21984	75616	36977	44890	93559	49296	67796	111501	61425	90702
18S-9800-1300-OP	5.0	88951	35777	41392	76052	37280	45447	97110	51709	72330	118168	65908	99212	139226	80013	126095
18S-10500-935-OP	10.0	105334	42899	50258	-	-	-	-	-	-	-	-	-	-	-	-
18S-10500-1000-OP	9.0	105156	42790	50086	-	-	-	-	-	-	-	-	-	54253	9550	9550
18S-10500-1100-OP	7.0	104858	42607	49798	-	-	-	-	-	-	62464	20032	20032	77541	35772	39280
18S-10500-1200-OP	6.0	104531	42406	49483	49219	3123	3123	67161	26029	26029	85104	41130	48935	103047	53506	71841
18S-10500-1300-OP	5.5	104176	42188	49141	67598	26586	26586	88656	43607	53469	109714	58043	80352	130771	72267	107234
18S-11000-935-OP	10.0	118281	50792	62758	-	-	-	-	-	-	-	-	-	-	-	-
18S-11000-1000-OP	10.0	118103	50684	62585	-	-	-	-	-	-	-	-	-	-	-	-
18S-11000-1100-OP	7.0	117805	50504	62298	-	-	-	-	-	-	-	3993	3993	64977	23241	23241
18S-11000-1200-OP	6.0	117478	50306	61983	-	-	-	54598	9990	9990	72541	32126	32896	90484	44876	55803
18S-11000-1300-OP	5.5	117124	50091	61640	55034	10547	10547	76092	34727	37430	97150	49470	64313	118208	63796	91196
32S-12000-1100-OP	10.0	132716	53512	61074	-	-	-	-	-	-	71797	9351	9351	89764	31658	31658
32S-12000-1200-OP	9.0	132338	53274	60698	-	-	-	-	-	-	98777	42411	42848	120159	57531	69395
32S-12000-1300-OP	7.0	131927	53015	60290	77915	16946	16946	103009	45504	48102	128102	62971	79257	153196	79895	110413
32S-15000-1100-OP	10.0	154777	64898	77192	-	-	-	-	-	-	-	-	-	73010	4329	4329
32S-15000-1200-OP	9.0	154399	64663	76816	-	-	-	-	-	-	82023	15519	15519	103404	42066	42066
32S-15000-1300-OP	7.0	153988	64408	76408	-	-	-	86255	20773	20773	111348	49163	51928	136442	66660	83084
50S-15400-1100-OP	12.0	167631	65357	72018	-	-	-	-	-	-	-	-	-	94040	10191	10191
50S-15400-1200-OP	10.0	167211	65088	71601	-	-	-	-	-	-	104054	22625	22625	127812	52121	52121
50S-15400-1300-OP	9.0	166754	64795	71148	-	-	-	108756	28463	28463	136638	60095	63080	164520	79613	97697
50S-15400-1450-OP	7.0	166000	64313	70399	121027	43697	43697	155714	73548	86764	190402	97173	129831	225089	120377	172897
50S-15600-1100-OP	12.0	175439	70327	79769	-	-	-	-	-	-	-	-	-	-	-	-
50S-15600-1200-OP	10.0	175018	70063	79352	-	-	-	-	-	-	96264	12953	12953	120021	42449	42449
50S-15600-1300-OP	9.0	174561	69773	78898	-	-	-	100966	18790	18790	128848	53408	53408	156730	74252	88025
50S-15600-1450-OP	7.0	173808	69294	78150	113236	34025	34025	147924	68125	77092	182611	91915	120159	217299	115188	163225

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 18S-9600-835-OP TO 50S-15600-1450-OP

					Operating supply pressure (bar g)											
	MOP				5			5.5			6			7		
Model	(bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	ETC
18S-9600-835-OP	12.0	71007	29097	34300	47292	20611	20611	55980	26903	31701	64668	32925	42792	82043	44730	64974
18S-9600-935-OP	9.0	70755	28943	34057	69126	35975	48485	80020	43364	62391	90913	50698	76297	112699	65285	104110
18S-9600-1000-OP	7.0	70577	28833	33885	84642	46480	68292	97102	54850	84198	109562	63188	100105	134483	79814	131919
18S-9600-1100-OP	7.0	70279	28650	33597	110547	63846	101362	125624	73906	120610	140701	83960	139857	170855	104070	178352
18S-9600-1200-OP	5.5	69952	28449	33282	138919	82772	137582	156862	94738	160488	-	-	-	-	-	-
18S-9600-1300-OP	5.0	69598	28232	32940	169758	103339	176952	-	-	-	-	-	-	-	-	-
18S-9800-835-OP	12.0	90360	36648	42752	-	-	-	46505	7727	7727	55193	18818	18818	72568	34846	41000
18S-9800-935-OP	10.0	90109	36493	42509	59652	24510	24510	70545	33419	38417	81438	41010	52323	103224	55845	80136
18S-9800-1000-OP	9.0	89930	36383	42337	75167	36665	44317	87627	45254	60224	100088	53724	76131	125008	70497	107945
18S-9800-1100-OP	7.0	89632	36198	42049	101072	54389	77388	116149	64553	96635	131226	74664	115883	161380	94802	154378
18S-9800-1200-OP	6.0	89306	35996	41734	129444	73472	113608	147387	85470	136514	165330	97436	159420	-	-	-
18S-9800-1300-OP	5.0	88951	35777	41392	160284	94071	152978	-	-	-	-	-	-	-	-	-
18S-10500-935-OP	10.0	105334	42899	50258	51198	5650	5650	62091	19556	19556	72984	32454	33462	94770	47836	61275
18S-10500-1000-OP	9.0	105156	42790	50086	66713	25457	25457	79173	36941	41364	91634	45671	57271	116554	62678	89085
18S-10500-1100-OP	7.0	104858	42607	49798	92618	46351	58527	107695	56671	77775	122772	66880	97022	152926	87130	135517
18S-10500-1200-OP	6.0	104531	42406	49483	120990	65678	94747	138933	77750	117654	156876	89771	140560	-	-	-
18S-10500-1300-OP	5.5	104176	42188	49141	151829	86396	134117	172887	100473	161000	-	-	-	-	-	-
18S-11000-935-OP	10.0	118281	50792	62758	-	-	-	49527	3517	3517	60420	17423	17423	82207	39093	45236
18S-11000-1000-OP	10.0	118103	50684	62585	54149	9418	9418	66610	25325	25325	79070	36868	41232	103991	54150	73046
18S-11000-1100-OP	7.0	117805	50504	62298	80054	37568	42488	95131	48084	61736	110208	58379	80983	140362	78709	119478
18S-11000-1200-OP	6.0	117478	50306	61983	108426	57168	78709	126369	69303	101615	144312	81359	124521	-	-	-
18S-11000-1300-OP	5.5	117124	50091	61640	139266	77973	118078	160324	92077	144961	-	-	-	-	-	-
32S-12000-1100-OP	10.0	132716	53512	61074	107730	48876	53964	125697	61327	76271	143664	73498	98578	179597	97490	143191
32S-12000-1200-OP	9.0	132338	53274	60698	141540	72068	95941	162922	86394	122488	184304	100610	149035	227067	128883	202128
32S-12000-1300-OP	7.0	131927	53015	60290	178290	96622	141568	203384	113244	172724	228478	129812	203879	278665	162837	266191
32S-15000-1100-OP	10.0	154777	64898	77192	90976	26635	26635	108943	47415	48942	126910	60115	71249	162843	84497	115862
32S-15000-1200-OP	9.0	154399	64663	76816	124786	58644	68612	146168	73272	95159	167550	87648	121706	210313	116085	174799
32S-15000-1300-OP	7.0	153988	64408	76408	161536	83619	114240	186630	100371	145395	211724	117020	176551	261911	150140	238862
50S-15400-1100-OP	12.0	167631	65357	72018	114003	34976	34976	133965	58148	59762	153928	72311	84547	193854	99492	134117
50S-15400-1200-OP	10.0	167211	65088	71601	151569	70671	81618	175326	86979	111114	199084	103003	140610	246599	134668	199603
50S-15400-1300-OP	9.0	166754	64795	71148	192402	98517	132314	220284	117180	166932	248166	135707	201549	303930	172571	270783
50S-15400-1450-OP	7.0	166000	64313	70399	259777	143402	215964	294464	166325	259031	329152	189181	302098	398527	234791	388231
50S-15600-1100-OP	12.0	175439	70327	79769	106212	25304	25304	126175	50089	50089	146138	66868	74874	186064	94245	124445
50S-15600-1200-OP	10.0	175018	70063	79352	143779	65204	71945	167536	81674	101442	191294	97773	130938	238808	129504	189931
50S-15600-1300-OP	9.0	174561	69773	78898	184612	93265	122642	212494	111977	157259	240376	130544	191877	296140	167432	261111
50S-15600-1450-OP	7.0	173808	69294	78150	251986	138239	206292	286674	161180	249359	321361	184050	292425	390736	229673	378559

NOTES

MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
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ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OUTPUT TORQUES (Nm) - SYMMETRIC YOKE DESIGN, SPRING TO OPEN. MODELS 18S-9600-835-OP TO 50S-15600-1450-OP

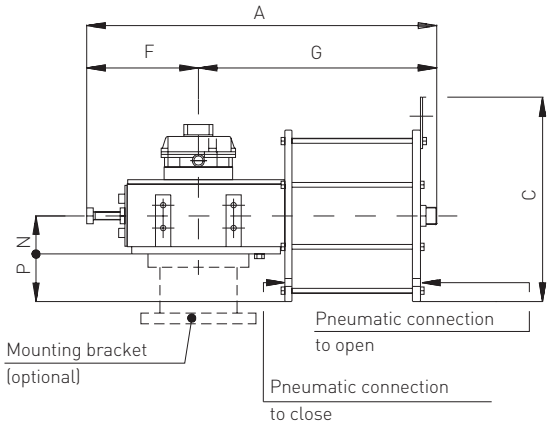
					Operating supply pressure (bar g)								
						9			10			12	
Model	MOP (bar g)	BTO	RTO	ETO	BTC	RTC	ETC	BTC	RTC	ETC	BTC	RTC	BTC
18S-9600-835-OP	12.0	71007	29097	34300	116793	68017	109337	134169	79604	131518	168919	102779	175881
18S-9600-935-OP	9.0	70755	28943	34057	156272	94344	159735	-	-	-	-	-	-
18S-9600-1000-OP	7.0	70577	28833	33885	-	-	-	-	-	-	-	-	-
18S-9600-1100-OP	7.0	70279	28650	33597	-	-	-	-	-	-	-	-	-
18S-9600-1200-OP	5.5	69952	28449	33282	-	-	-	-	-	-	-	-	-
18S-9600-1300-OP	5.0	69598	28232	32940	-	-	-	-	-	-	-	-	-
18S-9800-835-OP	12.0	90360	36648	42752	107319	58608	85363	124694	70286	107544	159445	93512	151907
18S-9800-935-OP	10.0	90109	36493	42509	146797	85076	135761	168583	99606	163573	-	-	-
18S-9800-1000-OP	9.0	89930	36383	42337	174850	103785	171573	-	-	-	-	-	-
18S-9800-1100-OP	7.0	89632	36198	42049	-	-	-	-	-	-	-	-	-
18S-9800-1200-OP	6.0	89306	35996	41734	-	-	-	-	-	-	-	-	-
18S-9800-1300-OP	5.0	88951	35777	41392	-	-	-	-	-	-	-	-	-
18S-10500-935-OP	10.0	105334	42899	50258	138343	77354	116900	160129	91947	144713	-	-	-
18S-10500-1000-OP	9.0	105156	42790	50086	166396	96137	152713	-	-	-	-	-	-
18S-10500-1100-OP	7.0	104858	42607	49798	-	-	-	-	-	-	-	-	-
18S-10500-1200-OP	6.0	104531	42406	49483	-	-	-	-	-	-	-	-	-
18S-10500-1300-OP	5.5	104176	42188	49141	-	-	-	-	-	-	-	-	-
18S-11000-935-OP	10.0	118281	50792	62758	125779	68905	100861	147565	83542	128674	-	-	-
18S-11000-1000-OP	10.0	118103	50684	62585	153832	87736	136674	178753	104385	168488	-	-	-
18S-11000-1100-OP	7.0	117805	50504	62298	-	-	-	-	-	-	-	-	-
18S-11000-1200-OP	6.0	117478	50306	61983	-	-	-	-	-	-	-	-	-
18S-11000-1300-OP	5.5	117124	50091	61640	-	-	-	-	-	-	-	-	-
32S-12000-1100-OP	10.0	132716	53512	61074	251463	144949	232417	287396	168573	277030	-	-	-
32S-12000-1200-OP	9.0	132338	53274	60698	312594	185127	308315	-	-	-	-	-	-
32S-12000-1300-OP	7.0	131927	53015	60290	-	-	-	-	-	-	-	-	-
32S-15000-1100-OP	10.0	154777	64898	77192	234709	132209	205088	270642	155890	249701	-	-	-
32S-15000-1200-OP	9.0	154399	64663	76816	295840	172464	280986	-	-	-	-	-	-
32S-15000-1300-OP	7.0	153988	64408	76408	-	-	-	-	-	-	-	-	-
50S-15400-1100-OP	12.0	167631	65357	72018	273705	152614	233257	313631	178959	282828	393483	231477	381968
50S-15400-1200-OP	10.0	167211	65088	71601	341629	197397	317588	389143	228626	376581	-	-	-
50S-15400-1300-OP	9.0	166754	64795	71148	415458	245914	409252	-	-	-	-	-	-
50S-15400-1450-OP	7.0	166000	64313	70399	-	-	-	-	-	-	-	-	-
50S-15600-1100-OP	12.0	175439	70327	79769	265915	147469	223585	305841	173829	273155	385692	226359	372296
50S-15600-1200-OP	10.0	175018	70063	79352	333838	192267	307916	381353	223508	366909	-	-	-
50S-15600-1300-OP	9.0	174561	69773	78898	407668	240796	399580	-	-	-	-	-	-
50S-15600-1450-OP	7.0	173808	69294	78150	-	-	-	-	-	-	-	-	-

NOTES

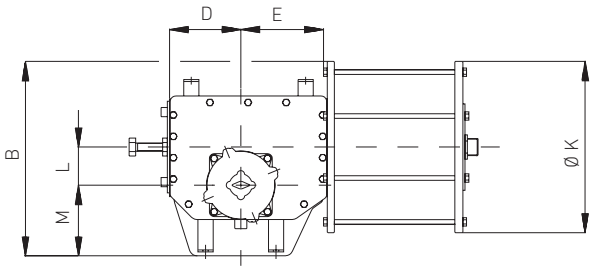
MOP: Maximum Operating Pressure
BTC: Break to Close
RTC: Run to Close
ETC: End to Close
BTO: Break to Open
RTO: Run to Open
ETO: End to Open

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SINGLE CYLINDER



Top view



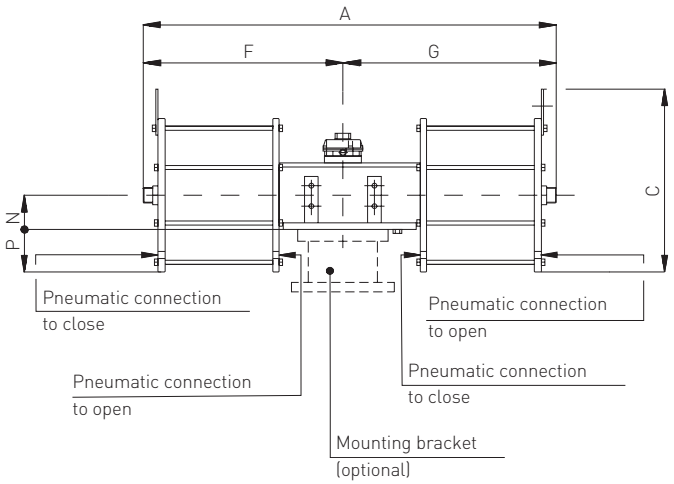
DIMENSIONS (mm)

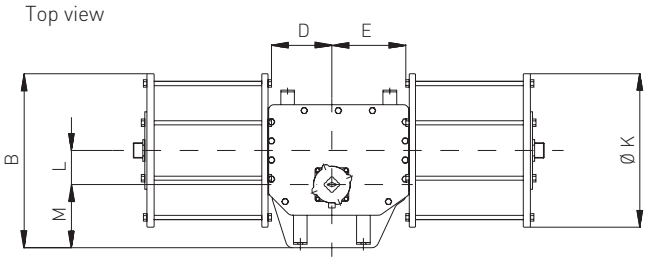
													Pneumatic connection*		Weight	Air consumption
Model	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**Ø K**	**L**	**M**	**N**	**P**	**Close**	**Open**	**(kg)**	**(liters)**
0.1-085	657	319	187	136	151	221	436	120	55	119	70	-9	¼	¼	40	1
0.1-100	690	319	187	136	151	221	469	120	55	119	70	-9	¼	¼	45	1.4
0.3-100	743	319	179	136	151	221	522	120	70	119	70	-10	¼	¼	49	1.6
0.3-135	745	319	209	136	151	221	524	154	70	119	70	20	¼	¼	53	2.9
0.3-175	751	319	247	136	151	221	530	200	70	119	70	28	¼	½	64	4.8
0.3-235	783	319	302	136	151	221	563	260	70	119	70	60	½	½	82	9
0.9-235	846	413	302	160	190	245	602	260	80	170	82	48	½	½	94	9
0.9-280	854	423	361	160	190	245	610	345	80	170	82	90	½	¾	124	14
1.5-280	992	469	361	187	227	310	682	345	100	185	100	73	½	¾	166	16
1.5-335	989	485	477	187	227	310	680	400	100	185	100	100	½	1	194	23
1.5-385	992	510	536	187	227	310	683	450	100	185	100	125	½	1	227	31
3-335	1313	586	477	285	330	391	921	400	160	215	106	95	½	1	265	36
3-385	1316	600	536	285	330	391	924	450	160	215	106	120	½	1	308	47
3-435	1316	625	579	285	330	391	925	500	160	215	106	142	¾	1	370	60
3-485	1321	655	639	285	330	391	930	560	160	215	106	175	¾	1	388	74
6-485	1497	740	639	327	379	430	1067	560	185	260	140	140	¾	1	512	85
6-535	1508	755	705	327	379	430	1078	670	185	260	140	170	¾	1	660	104
6-585	1505	780	758	327	379	430	1075	670	185	260	140	195	¾	1	704	124
14-635	1676	855	809	376	435	497	1179	720	200	295	193	167	1	1	1250	159
14-735	1810	902	914	376	435	497	1313	815	200	295	193	217	1	1	1475	213
18-635	1927	940	813	425	493	546	1381	730	230	340	193	172	1	1	799	184
18-685	1952	955	889	425	493	546	1406	770	230	340	193	192	1	1	1550	208
18-735	1955	980	914	425	493	546	1409	820	230	340	193	217	1	1	1650	239
32-685	2210	1055	889	504	556	620	1590	770	270	395	233	153	1	1	2005	244
32-735	2153	1075	909	504	554	620	1533	820	270	395	233	177	1	1	2155	288
32-835	2223	1075	1125	504	556	620	1602	925	270	395	233	230	1	1	1970	372
50-935	2509	1215	1179	551	633	693	1816	1055	300	387	233	295	1	1	2880	520
50-1000	2490	1280	1264	551	633	693	1797	1120	300	420	233	327	1	1	3100	600
50-1100	2490	1297	1366	551	593	693	1797	1220	300	387	233	377	1	1	3455	730
80-935	2875	1350	1180	663	761	807	2153	1100	350	455	302	248	1	1	3855	610
80-1000	2875	1350	1266	663	761	807	2091	1180	350	455	302	288	1	1	4155	700
80-1100	2899	1410	1363	663	761	807	2091	1220	350	450	302	308	1	1	4272	840
80-1200	2878	1350	1465	663	761	807	2071	1380	350	455	302	388	1	1	4755	1000

* Pneumatic connection NPT (in)

ALGA DOUBLE ACTING PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - TWO CYLINDERS





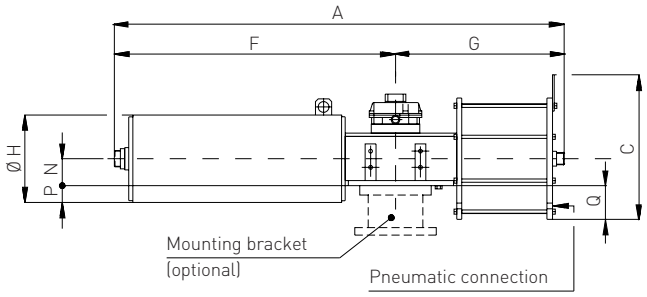
DIMENSIONS (mm)

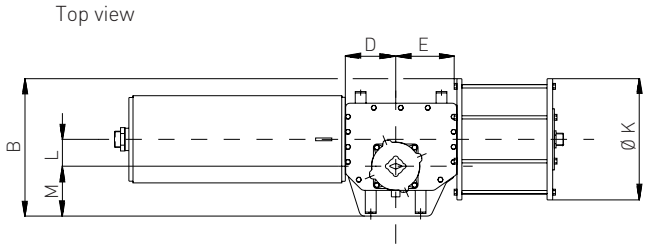
													Pneumatic connection*		Weight	Air consumption
Model	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**Ø K**	**L**	**M**	**N**	**P**	**Close**	**Open**	**(kg)**	**(liters)**
18#2-635	2694	940	813	425	493	1313	1381	730	230	340	193	172	1	1	1283	357
18#2-685	2744	955	889	425	493	1338	1406	770	230	340	193	192	1	1	2040	416
32#2-685	3100	1055	889	504	556	1510	1590	770	270	395	233	153	1	1	2550	487
50#2-935	3550	1215	1179	551	633	1734	1816	1055	300	387	233	295	1	1	4410	1040
50#2-1000	3509	1247	1264	551	633	1712	1797	1120	300	387	233	327	1	1	4092	1200
80#2-935	4234	1350	1179	663	761	2068	2166	1055	350	450	302	226	1	1	5155	1220
80#2-1000	4178	1360	1264	663	761	2040	2138	1120	350	450	302	258	1	1	5755	1400
80#2-1100	4084	1410	1363	663	761	1993	2091	1220	350	450	302	308	1	1	6188	1680
80#2-1200	4084	1460	1465	663	761	1993	2091	1320	350	450	302	358	1	1	6936	2000

* Pneumatic connection NPT (in)

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO CLOSE, MODELS 0.1-006A-085-CL TO 0.9-0700-485-CL



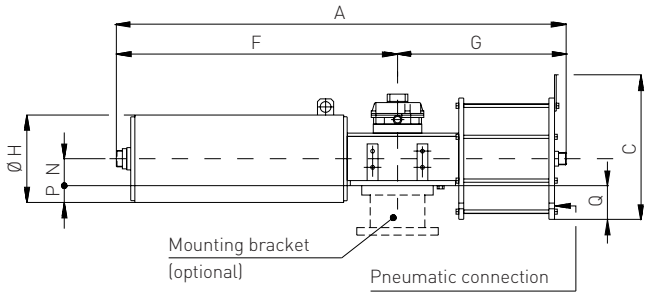


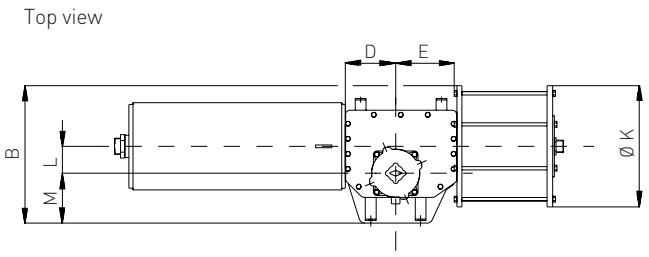
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
0.1-006A-085-CL	1058	319	201	136	151	621	437	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006A-100-CL	1091	319	201	136	151	621	471	110	120	55	119	71	-16	-11	¼	59	1.4
0.1-006B-085-CL	1058	319	201	136	151	621	437	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006B-100-CL	1091	319	201	136	151	621	471	110	120	55	119	71	-16	-11	¼	59	1.4
0.1-006C-085-CL	1058	319	201	136	151	621	437	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006C-100-CL	1091	319	201	136	151	621	471	110	120	55	119	71	-16	-11	¼	59	1.4
0.3-008A-100-CL	1186	319	201	136	151	716	471	147	120	70	119	71	3	-11	¼	62	1.6
0.3-008A-135-CL	1241	319	222	136	151	715	526	147	154	70	119	71	3	21	¼	65	2.9
0.3-008B-100-CL	1186	319	201	136	151	716	471	147	120	70	119	71	3	-11	¼	62	1.6
0.3-008B-135-CL	1241	319	222	136	151	715	526	147	154	70	119	71	3	21	¼	65	2.9
0.3-008C-100-CL	1186	319	201	136	151	716	471	147	120	70	119	71	3	-11	¼	62	1.6
0.3-008C-135-CL	1241	319	222	136	151	715	526	147	154	70	119	71	3	21	¼	65	2.9
0.3-0100-135-CL	1340	319	280	136	151	815	525	210	154	70	119	70	36	21	¼	92	2.9
0.3-0100-175-CL	1346	319	339	136	151	815	530	210	200	70	119	70	36	28	½	100	4.8
0.3-0100-235-CL	1378	319	305	136	151	815	563	210	260	70	119	70	36	61	½	120	9.0
0.3-0150-175-CL	1293	319	339	136	151	763	530	185	200	70	119	70	34	30	½	102	4.8
0.3-0150-235-CL	1325	319	363	136	151	763	562	185	260	70	119	70	34	61	½	118	9.0
0.9-0200-235-CL	1459	413	310	160	190	857	602	240	260	80	170	83	37	48	½	185	9.0
0.9-0200-280-CL	1467	423	361	160	190	857	610	240	345	80	170	83	37	90	¾	217	14.0
0.9-0200-335-CL	1500	450	477	160	190	857	643	240	400	80	170	83	37	118	1	243	20.0
0.9-0250-235-CL	1388	413	310	160	190	786	602	240	260	80	170	83	37	48	½	185	9.0
0.9-0250-280-CL	1396	423	361	160	190	786	610	240	345	80	170	83	37	90	¾	217	14.0
0.9-0250-335-CL	1429	450	477	160	190	786	643	240	400	80	170	83	37	118	1	243	20.0
0.9-0350-280-CL	1520	423	387	160	190	910	610	310	345	80	170	83	73	90	¾	258	14.0
0.9-0350-335-CL	1553	450	477	160	190	910	643	310	400	80	170	83	73	118	1	284	20.0
0.9-0350-385-CL	1556	475	536	160	190	910	646	310	450	80	170	83	73	143	1	316	26.0
0.9-0350-435-CL	1556	500	584	160	190	910	646	310	500	80	170	83	73	168	1	352	33.0
0.9-0350-485-CL	1562	560	639	160	190	910	652	310	560	80	200	83	73	198	1	387	41.0
0.9-0400-280-CL	1454	423	387	160	190	844	610	310	345	80	170	83	73	90	¾	256	14.0
0.9-0400-335-CL	1487	450	477	160	190	844	643	310	400	80	170	83	73	118	1	282	20.0
0.9-0400-385-CL	1490	475	536	160	190	844	646	310	450	80	170	83	73	143	1	314	26.0
0.9-0400-435-CL	1490	500	584	160	190	844	646	310	500	80	170	83	73	168	1	350	33.0
0.9-0400-485-CL	1496	560	639	160	190	844	652	310	560	80	200	83	73	198	1	385	41.0
0.9-0700-335-CL	1514	450	477	160	190	871	643	310	400	80	170	83	73	118	1	302	20.0
0.9-0700-385-CL	1514	475	536	160	190	871	643	310	450	80	170	83	73	143	1	334	26.0
0.9-0700-435-CL	1517	500	584	160	190	871	646	310	500	80	170	83	73	168	1	370	33.0
0.9-0700-485-CL	1523	560	639	160	190	871	652	310	560	80	200	83	73	198	1	405	41.0

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO CLOSE, MODELS 1.5-1100-385-CL TO 14-8300-935-CL



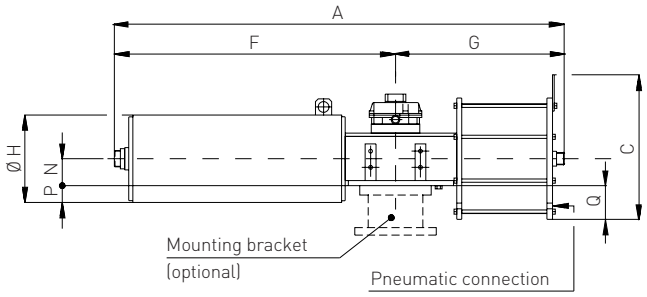


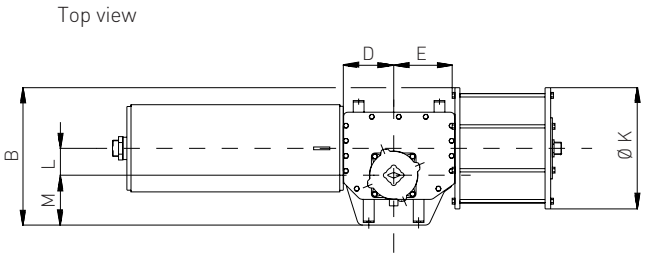
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
1.5-1100-385-CL	1691	650	536	187	227	1008	683	370	450	100	100	185	100	125	1	540	31
1.5-1100-435-CL	1691	535	579	187	227	1008	683	370	500	100	185	100	85	150	1	500	39
1.5-1100-485-CL	1697	575	639	187	227	1008	689	370	560	100	185	100	85	180	1	611	48
1.5-1100-535-CL	1706	620	670	187	227	1008	698	370	620	100	210	100	85	210	1	553	59
1.5-1100-585-CL	1701	670	758	187	227	1008	693	370	670	100	235	100	85	235	1	570	70
1.5-1200-385-CL	1760	510	536	187	227	1077	683	324	450	100	185	100	62	125	1	468	31
1.5-1200-435-CL	1760	535	579	187	227	1077	683	324	500	100	185	100	62	150	1	503	39
1.5-1200-485-CL	1766	565	640	187	227	1077	689	324	560	100	185	100	62	185	1	539	48
1.5-1200-535-CL	1775	620	705	187	227	1077	698	324	620	100	210	100	62	210	1	556	59
1.5-1200-585-CL	1770	670	758	187	227	1077	693	314	670	100	235	100	62	235	1	573	70
3-2000-385-CL	2354	600	536	285	330	1429	925	406	450	160	215	106	102	120	1	774	47
3-2000-435-CL	2354	625	579	285	330	1429	925	406	500	160	215	106	102	145	1	809	60
3-2000-485-CL	2359	665	640	285	330	1429	930	406	560	160	215	106	102	175	1	843	74
3-2000-535-CL	2372	685	700	285	330	1429	943	406	620	160	215	106	102	205	1	929	90
3-2000-585-CL	2397	710	758	285	330	1429	968	406	670	160	215	106	102	230	1	1015	108
6-2500-485-CL	2973	740	640	327	379	1906	1067	383	560	185	260	140	52	140	1	1068	85
6-2500-535-CL	2984	755	705	327	379	1906	1078	383	620	185	260	140	52	170	1	1625	104
6-2500-585-CL	2981	780	758	327	379	1906	1075	383	670	185	260	140	52	195	1	1245	124
6-2500-635-CL	3029	805	809	327	379	1906	11233	383	720	185	260	140	52	220	1	1323	146
6-2500-735-CL	3048	853	912	327	379	1906	1142	383	815	185	260	140	52	268	2 x 1	1530	196
6-3800-535-CL	3214	755	705	327	379	2136	1078	530	620	185	260	140	125	170	1	1600	104
6-3800-585-CL	3211	780	758	327	379	2136	1075	530	670	185	260	140	125	195	1	1655	124
6-3800-635-CL	3259	805	809	327	379	2136	1123	530	720	185	260	140	125	220	1	1720	146
6-3800-735-CL	3278	853	912	327	379	2136	1142	530	815	185	260	140	125	268	2 x 1	1934	196
14-5100-635-CL	3271	890	809	376	435	2092	1179	530	720	200	330	193	72	167	1	1900	159
14-5100-735-CL	3290	938	912	376	435	2092	1198	530	815	200	330	193	72	215	2 x 1	2150	213
14-5100-785-CL	3290	973	993	376	435	2092	1198	530	885	200	330	193	72	250	2 x 1	2280	243
14-5100-835-CL	3330	993	1036	376	435	2092	1238	530	925	200	330	193	72	270	2 x 1	2355	274
14-5100-885-CL	3371	1030	1123	376	435	2092	1279	530	1000	200	330	193	72	307	2 x 1	2455	308
14-5100-935-CL	3369	1056	1178	376	435	2092	1277	530	1051	200	330	193	72	335	2 x 1	2890	343
14-5400-635-CL	3219	890	809	376	435	2040	1179	530	720	200	330	193	72	167	1	1915	159
14-5400-735-CL	3237	938	912	376	435	2040	1197	530	815	200	295	193	72	215	2 x 1	2050	213
14-5400-785-CL	3238	973	993	376	435	2040	1197	530	885	200	330	193	72	251	2 x 1	2260	243
14-5400-835-CL	3278	993	1036	376	435	2040	1238	530	925	200	295	193	72	270	2 x 1	2250	274
14-5400-885-CL	3172	1030	1123	376	435	2040	1279	530	1000	200	330	193	72	307	2 x 1	2455	308
14-5400-935-CL	3314	1051	1178	376	435	2040	1277	530	1051	200	330	193	72	333	2 x 1	2600	343
14-8300-735-CL	3300	938	912	376	435	2103	1197	530	815	200	295	193	72	215	2 x 1	2100	213
14-8300-785-CL	3300	973	993	376	435	2103	1197	530	885	200	330	193	72	251	2 x 1	2330	243
14-8300-835-CL	3300	958	1036	376	435	2103	1238	530	925	200	330	193	72	270	2 x 1	2300	274
14-8300-885-CL	3380	1030	1123	376	435	2103	1287	530	1000	200	295	193	72	307	2 x 1	2570	308
14-8300-935-CL	3377	1056	1178	376	435	2103	1277	530	1051	200	295	193	72	335	2 x 1	2650	343

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO CLOSE, MODELS 18-9600-835-CL TO 50-15600-1450-CL



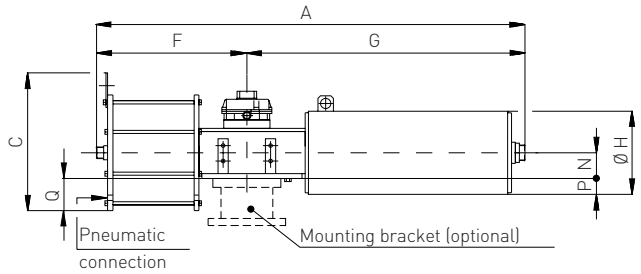


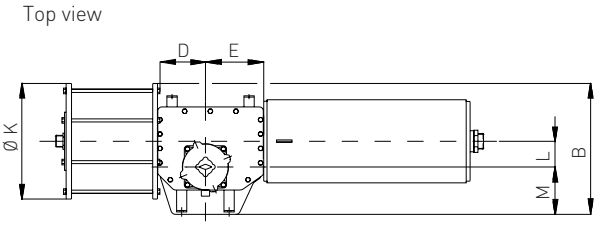
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
18-9600-835-CL	4068	1033	1036	425	493	2695	1373	559	925	230	340	193	176	270	2 x 1	3350	318
18-9600-935-CL	4107	1098	1179	425	493	2697	1410	559	1055	230	340	193	176	335	2 x 1	3750	398
18-9600-1000-CL	4111	1130	1262	425	493	2697	1414	559	1120	230	330	193	176	367	2 x 1	4190	456
18-9600-1100-CL	4107	1216	1364	425	493	2697	1414	559	1220	230	380	193	176	417	2 x 1	4350	552
18-9600-1200-CL	4068	1320	1465	425	493	2695	1373	559	1320	230	430	193	176	467	2 x 1	4400	660
18-9600-1300-CL	4130	1420	1572	425	493	2687	1443	559	1420	230	480	193	176	518	2 x 1	5660	770
18-9800-835-CL	4019	1033	1036	425	493	2687	1375	559	925	230	340	193	176	267	2 x 1	3700	318
18-9800-935-CL	4097	1098	1179	425	493	2687	1410	559	1055	230	340	193	176	331	2 x 1	4100	398
18-9800-1000-CL	4100	1145	1264	425	493	2687	1414	559	1120	230	355	193	176	367	2 x 1	4109	456
18-9800-1100-CL	4097	1216	1364	425	493	2687	1414	559	1220	230	380	193	176	414	2 x 1	4700	552
18-9800-1200-CL	4077	1320	1465	425	493	2687	1394	559	1320	230	430	193	176	468	2 x 1	5080	660
18-9800-1300-CL	4142	1420	1575	425	493	2695	1447	559	1420	230	480	193	176	517	2 x 1	5400	770
18-10500-935-CL	4178	1113	1179	425	493	2770	1408	670	1055	230	355	193	232	332	2 x 1	4150	398
18-10500-1000-CL	4184	1145	1264	425	493	2769	1415	670	1120	230	355	193	232	367	2 x 1	4800	456
18-10500-1100-CL	4183	1216	1364	425	493	2773	1410	670	1220	230	380	193	232	414	2 x 1	4150	552
18-10500-1200-CL	4161	1320	1465	425	493	2769	1373	670	1320	230	430	193	232	467	2 x 1	5150	660
18-10500-1300-CL	4226	1420	1575	425	493	2769	1457	670	1420	230	480	193	232	517	2 x 1	5450	770
18-11000-935-CL	4065	1098	1179	425	493	2655	1410	670	1055	230	340	193	232	332	2 x 1	4100	398
18-11000-1000-CL	4069	1145	1264	425	493	2653	1415	670	1120	230	355	193	232	367	2 x 1	4700	456
18-11000-1100-CL	4065	1216	1364	425	493	2655	1410	670	1220	230	380	193	232	414	2 x 1	4100	552
18-11000-1200-CL	4049	1320	1465	425	493	2655	1394	670	1320	230	430	193	232	464	2 x 1	5100	660
18-11000-1300-CL	4111	1420	1572	425	493	2655	1456	670	1420	230	355	193	232	518	2 x 1	6470	770
32-12000-1100-CL	4527	1298	1362	505	585	2889	1637	800	1220	270	420	236	254	374	2 x 1	5950	650
32-12000-1200-CL	4506	1350	1465	505	585	2889	1617	800	1320	270	420	236	254	424	2 x 1	6000	774
32-12000-1300-CL	4558	1420	1575	505	585	2889	1669	800	1420	270	420	236	254	474	2 x 1	7350	910
32-15000-1100-CL	4547	1298	1362	505	585	2889	1658	800	1220	270	420	236	254	374	2 x 1	6150	650
32-15000-1200-CL	4506	1350	1465	505	585	2889	1617	800	1320	270	420	233	254	424	2 x 1	6940	774
32-15000-1300-CL	4579	1400	1575	505	585	2889	1669	800	1420	270	420	233	257	474	2 x 1	7550	910
50-15400-1100-CL	4760	1330	1364	548	633	3027	1785	800	1220	300	420	233	257	378	2 x 1	7110	720
50-15400-1200-CL	4805	1380	1465	548	633	3027	1665	800	1320	300	420	233	257	427	2 x 1	7160	860
50-15400-1300-CL	4908	1430	1575	548	633	3027	1881	800	1420	300	420	233	257	477	2 x 1	7510	1010
50-15400-1450-CL	4806	1600	1804	548	633	3027	1779	800	1590	300	420	233	257	562	2 x 1	7650	1256
50-15600-1100-CL	4753	1330	1364	548	633	3027	1785	800	1220	300	420	233	257	378	2 x 1	7110	720
50-15600-1200-CL	4804	1380	1465	548	633	3027	1665	800	1320	300	420	233	257	427	2 x 1	7160	860
50-15600-1300-CL	4907	1430	1570	548	633	3027	1678	800	1420	300	420	233	257	479	2 x 1	7650	1010
50-15600-1450-CL	4805	1596	1804	548	633	3027	1781	800	1590	300	500	233	257	567	2 x 1	7600	1256

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO OPEN, MODELS 0.1-006A-085-OP TO 0.9-0700-485-OP



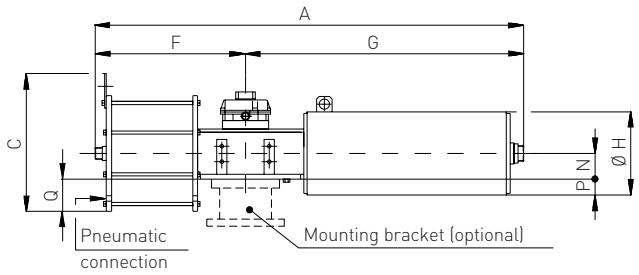


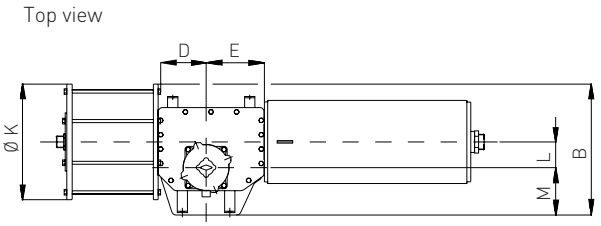
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
0.1-006A-085-OP	1058	319	201	136	151	475	636	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006A-100-OP	1144	319	201	136	151	508	636	110	120	55	119	71	-16	-11	¼	59	1.4
0.1-006B-085-OP	1058	319	201	136	151	475	636	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006B-100-OP	1144	319	201	136	151	508	636	110	120	55	119	71	-16	-11	¼	59	1.4
0.1-006C-085-OP	1058	319	201	136	151	475	636	110	120	55	119	71	-16	-11	¼	55	1.0
0.1-006C-100-OP	1144	319	201	136	151	508	636	110	120	55	119	71	-16	-11	¼	59	1.4
0.3-008A-100-OP	1240	319	201	136	151	510	730	147	120	70	119	69	5	-9	¼	62	1.6
0.3-008A-135-OP	1239	319	307	136	151	510	730	147	154	70	119	69	5	21	¼	65	2.9
0.3-008B-100-OP	1237	319	307	136	151	510	730	147	120	70	119	69	5	-9	¼	62	1.6
0.3-008B-135-OP	1239	319	307	136	151	510	730	147	154	70	119	69	5	21	¼	65	2.9
0.3-008C-100-OP	1237	319	307	136	151	510	730	147	120	70	119	69	5	-9	¼	62	1.6
0.3-008C-135-OP	1239	319	307	136	151	510	730	147	154	70	119	69	5	21	¼	65	2.9
0.3-0100-135-OP	1340	319	339	136	151	510	831	210	154	70	119	69	36	21	¼	92	2.9
0.3-0100-175-OP	1346	319	339	136	151	515	831	210	200	70	119	69	36	28	¼	100	4.8
0.3-0100-235-OP	1378	319	364	136	151	548	831	210	260	70	119	69	36	61	½	120	9.0
0.3-0150-175-OP	1293	319	339	136	151	507	780	185	200	70	119	69	34	30	½	102	4.8
0.3-0150-235-OP	1325	319	363	136	151	511	780	185	260	70	119	69	34	61	½	118	9.0
0.9-0200-235-OP	1459	413	374	160	190	535	887	240	260	80	170	83	37	48	½	185	9.0
0.9-0200-280-OP	1467	423	417	160	190	532	887	240	345	80	170	83	37	90	¾	217	14.0
0.9-0200-335-OP	1500	450	477	160	190	613	887	240	400	80	170	83	37	118	1	243	20.0
0.9-0250-235-OP	1388	413	374	160	190	572	816	240	260	80	170	83	37	48	½	185	9.0
0.9-0250-280-OP	1396	423	361	160	190	579	816	240	345	80	170	83	37	90	¾	217	14.0
0.9-0250-335-OP	1429	450	477	160	190	613	816	240	400	80	170	83	37	118	1	243	20.0
0.9-0350-280-OP	1520	423	417	160	190	532	940	310	345	80	170	83	73	90	¾	258	14.0
0.9-0350-335-OP	1553	450	477	160	190	567	940	310	400	80	170	83	73	118	1	284	20.0
0.9-0350-385-OP	1556	475	536	160	190	560	940	310	450	80	170	83	73	143	1	316	26.0
0.9-0350-435-OP	1556	500	579	160	190	616	940	310	500	80	170	83	73	168	1	352	33.0
0.9-0350-485-OP	1562	560	639	160	190	622	940	310	560	80	200	83	73	198	1	387	41.0
0.9-0400-280-OP	1454	423	417	160	190	532	874	310	345	80	170	83	73	90	¾	256	14.0
0.9-0400-335-OP	1485	450	477	160	190	567	874	310	400	80	170	83	73	118	1	282	20.0
0.9-0400-385-OP	1490	475	536	160	190	616	874	310	450	80	170	83	73	143	1	314	26.0
0.9-0400-435-OP	1490	500	579	160	190	616	874	310	500	80	170	83	73	168	1	350	33.0
0.9-0400-485-OP	1496	560	639	160	190	622	874	310	560	80	200	83	73	198	1	385	41.0
0.9-0700-335-OP	1514	450	477	160	190	567	901	310	400	80	170	83	73	118	1	302	20.0
0.9-0700-385-OP	1514	475	536	160	190	560	901	310	450	80	170	83	73	143	1	334	26.0
0.9-0700-435-OP	1517	500	579	160	190	616	901	310	500	80	170	83	73	168	1	370	33.0
0.9-0700-485-OP	1523	560	639	160	190	573	901	310	560	80	200	83	73	198	1	405	41.0

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO OPEN, MODELS 1.5-1100-385-OP TO 14-8300-935-OP



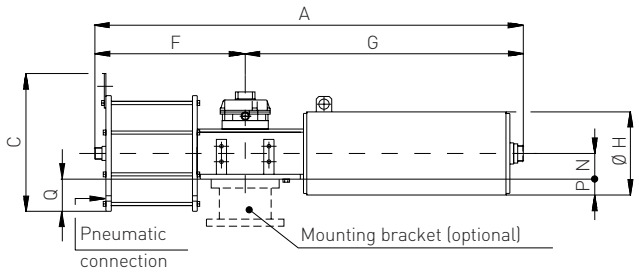


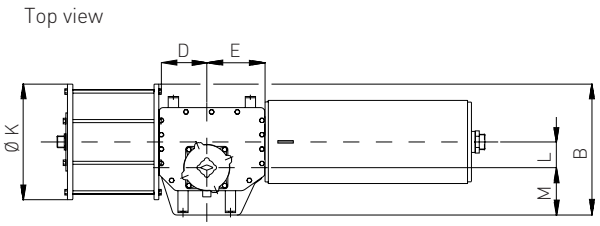
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
1.5-1100-385-OP	1691	510	536	187	227	643	1048	370	450	100	185	100	85	125	1	540	31
1.5-1100-435-OP	1664	535	579	187	227	643	1048	370	500	100	185	100	85	150	1	500	39
1.5-1100-485-OP	1697	565	639	187	227	649	1048	370	560	100	185	100	85	180	1	611	48
1.5-1100-535-OP	1706	620	710	187	227	858	1048	370	620	100	210	100	85	210	1	553	59
1.5-1100-585-OP	1701	670	758	187	227	653	1048	370	670	100	235	100	85	235	1	570	70
1.5-1200-385-OP	1760	510	536	187	227	643	1117	324	450	100	185	100	62	125	1	468	31
1.5-1200-435-OP	1760	535	579	187	227	643	1117	324	500	100	185	100	62	150	1	503	39
1.5-1200-485-OP	1766	565	639	187	227	649	1117	324	560	100	185	100	62	180	1	539	48
1.5-1200-535-OP	1775	620	710	187	227	658	1117	324	620	100	210	100	62	210	1	556	59
1.5-1200-585-OP	1770	670	758	187	227	653	1117	324	670	100	235	100	62	235	1	573	70
3-2000-385-OP	2354	600	536	285	330	880	1474	406	450	160	215	106	102	120	1	774	47
3-2000-435-OP	2354	625	582	285	330	880	1474	406	500	160	215	106	102	145	1	809	60
3-2000-485-OP	2359	665	674	285	330	885	1474	406	560	160	215	106	102	175	1	843	74
3-2000-535-OP	2372	685	710	285	330	898	1474	406	620	160	215	106	102	205	1	929	90
3-2000-585-OP	2397	710	758	285	330	923	1474	406	670	160	215	106	102	230	1	1015	108
6-2500-485-OP	2974	740	640	327	378	1016	1958	383	560	185	260	140	52	140	1	1068	85
6-2500-535-OP	2984	755	705	327	378	1024	1958	383	620	185	260	140	52	170	1	1625	104
6-2500-585-OP	2987	780	758	327	378	1029	1958	383	670	185	260	140	52	195	1	1245	124
6-2500-635-OP	3029	805	809	327	378	1071	1958	383	720	185	260	140	52	220	1	1323	146
6-2500-735-OP	3048	853	912	327	378	1090	1958	383	815	185	260	140	52	268	2 x 1	1530	196
6-3800-535-OP	3214	755	705	327	378	1028	2186	530	620	185	260	140	125	170	1	1600	104
6-3800-585-OP	3211	780	758	327	378	1025	2186	530	670	185	260	140	125	195	1	1655	124
6-3800-635-OP	3259	805	809	327	378	1071	2188	530	720	185	260	140	125	220	1	1720	146
6-3800-735-OP	3278	853	912	327	378	1090	2188	530	815	185	260	140	125	268	2 x 1	1934	196
14-5100-635-OP	3271	890	809	376	435	1120	2151	530	720	200	330	193	72	167	1	1900	159
14-5100-735-OP	3290	938	912	376	435	1138	2151	530	815	200	330	193	72	215	2 x 1	2150	213
14-5100-785-OP	3290	973	982	376	435	1138	2151	530	885	200	330	193	72	250	2 x 1	2280	243
14-5100-835-OP	3330	993	1036	376	435	1179	2151	530	925	200	330	193	72	270	2 x 1	2355	274
14-5100-885-OP	3371	1030	1123	376	435	1220	2151	530	1000	200	330	193	72	307	2 x 1	2455	308
14-5100-935-OP	3369	1056	1178	376	435	1218	2151	530	1051	200	330	193	72	335	2 x 1	2890	343
14-5400-635-OP	3219	890	809	376	435	1120	2101	530	720	200	330	193	72	167	1	1915	159
14-5400-735-OP	3237	938	912	376	435	1138	2099	530	815	200	295	193	72	215	2 x 1	2050	213
14-5400-785-OP	3238	973	993	376	435	1138	2099	530	885	200	330	193	72	251	2 x 1	2260	243
14-5400-835-OP	3278	993	1036	376	435	1138	2099	530	925	200	295	193	72	270	2 x 1	2250	274
14-5400-885-OP	3315	1030	1123	376	435	1073	2099	530	1000	200	330	193	72	307	2 x 1	2455	308
14-5400-935-OP	3314	1051	1178	376	435	1215	2099	530	1051	200	330	193	72	333	2 x 1	2600	343
14-8300-735-OP	3300	938	912	376	435	1138	2162	530	815	200	295	193	72	215	2 x 1	2100	213
14-8300-785-OP	3300	973	993	376	435	1138	2162	530	885	200	330	193	72	251	2 x 1	2330	243
14-8300-835-OP	3300	958	1036	376	435	1138	2162	530	925	200	295	193	72	270	2 x 1	2300	274
14-8300-885-OP	3380	1030	1123	376	435	1218	2162	530	1000	200	330	193	72	307	2 x 1	2570	308
14-8300-935-OP	3377	1056	1178	376	435	1215	2162	530	1051	200	326	193	72	335	2 x 1	2650	343

ALGAS SPRING RETURN PNEUMATIC ACTUATOR

OVERALL DIMENSIONS - SPRING TO OPEN, MODELS 18-9600-835-OP TO 50-15600-1450-OP





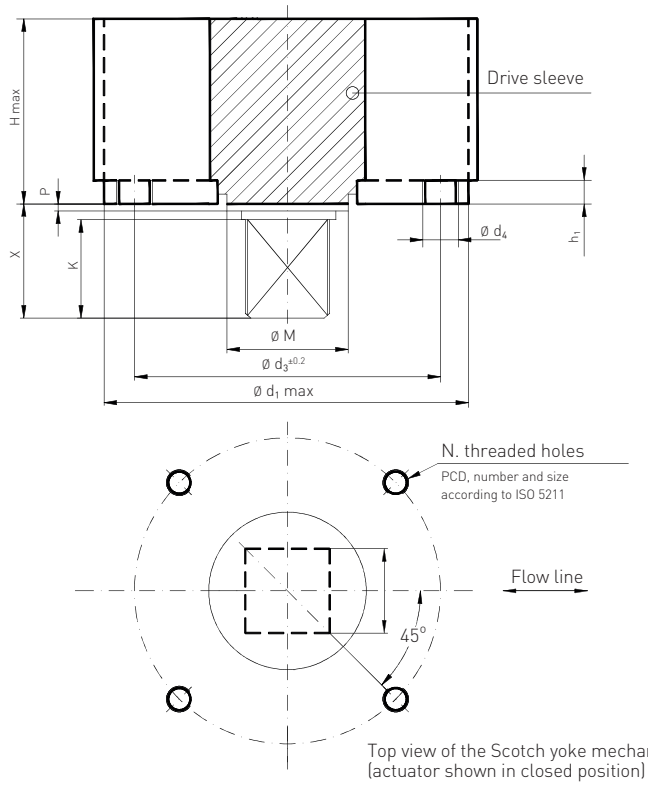
DIMENSIONS (mm)

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	NPT (in)	Weight (kg)	Air consumption (liters)
18-9600-835-OP	4068	1033	1036	407	495	1265	2755	559	925	230	340	193	176	270	2 x 1	3350	318
18-9600-935-OP	4107	1098	1179	427	495	1342	2765	559	1055	230	340	193	176	335	2 x 1	3750	398
18-9600-1000-OP	4110	1144	1264	427	495	1349	2765	559	1120	230	355	193	176	367	2 x 1	4190	456
18-9600-1100-OP	4107	1216	1364	427	495	1342	2765	559	1220	230	380	193	176	417	2 x 1	4350	552
18-9600-1200-OP	4087	1320	1465	427	495	1324	2763	559	1320	230	430	193	176	467	2 x 1	4400	660
18-9600-1300-OP	4130	1420	1575	427	495	1389	2741	559	1420	230	480	193	176	518	2 x 1	5660	770
18-9800-835-OP	4019	1033	1036	427	495	1264	2755	559	925	230	340	193	176	267	2 x 1	3700	318
18-9800-935-OP	4097	1098	1179	427	495	1342	2755	559	1055	230	340	193	176	331	2 x 1	4100	398
18-9800-1000-OP	4100	1145	1264	427	495	1347	2753	559	1120	230	355	193	176	367	2 x 1	4109	456
18-9800-1100-OP	4097	1216	1364	427	495	1342	2755	559	1220	230	380	193	176	414	2 x 1	4700	552
18-9800-1200-OP	4077	1320	1465	427	495	1324	2753	559	1320	230	430	193	176	468	2 x 1	5080	660
18-9800-1300-OP	4142	1420	1575	427	495	1389	2753	559	1420	230	480	193	176	517	2 x 1	5400	770
18-10500-935-OP	4178	1113	1179	427	495	1340	2838	670	1055	230	355	193	232	335	2 x 1	4150	398
18-10500-1000-OP	4185	1145	1264	425	493	1347	2838	670	1120	230	355	193	232	372	2 x 1	4800	456
18-10500-1100-OP	4183	1216	1364	425	493	1342	2841	670	1220	230	380	193	232	414	2 x 1	4150	552
18-10500-1200-OP	4161	1320	1465	425	493	1324	2838	670	1320	230	430	193	232	467	2 x 1	5150	660
18-10500-1300-OP	4227	1420	1575	425	493	1389	2838	670	1420	230	480	193	232	518	2 x 1	5450	770
18-11000-935-OP	4065	1098	1179	425	493	1342	2723	670	1055	230	340	193	232	332	2 x 1	4100	398
18-11000-1000-OP	4069	1145	1264	425	493	1347	2722	670	1120	230	355	193	232	367	2 x 1	4700	456
18-11000-1100-OP	4065	1216	1364	425	493	1342	2723	670	1220	230	380	193	232	414	2 x 1	4100	552
18-11000-1200-OP	4049	1320	1465	425	493	1326	2723	670	1320	230	430	193	232	464	2 x 1	5100	660
18-11000-1300-OP	4111	1420	1575	425	493	1389	2722	670	1420	230	480	193	232	517	2 x 1	6470	770
32-12000-1100-OP	4527	1298	1362	505	585	1557	2970	800	1220	270	420	233	254	374	2 x 1	5950	650
32-12000-1200-OP	4506	1350	1465	505	585	1537	2970	800	1320	270	420	233	254	424	2 x 1	6000	774
32-12000-1300-OP	4559	1420	1575	505	585	1589	2970	800	1420	270	420	233	254	474	2 x 1	7350	910
32-15000-1100-OP	4547	1298	1362	505	585	1557	2990	800	1220	270	420	233	254	374	2 x 1	6150	650
32-15000-1200-OP	4506	1350	1465	505	585	1537	2990	800	1320	270	420	233	254	424	2 x 1	6940	774
32-15000-1300-OP	4579	1420	1575	505	585	1589	2990	800	1420	270	420	233	257	455	2 x 1	7550	910
50-15400-1100-OP	4760	1330	1364	548	633	1647	3113	800	1220	300	420	233	257	378	2 x 1	7110	720
50-15400-1200-OP	4805	1380	1465	548	633	1692	3113	800	1320	300	420	233	257	427	2 x 1	7160	860
50-15400-1300-OP	4908	1430	1575	548	633	1795	3113	800	1420	300	420	233	257	477	2 x 1	7510	1010
50-15400-1450-OP	4806	1600	1804	548	633	1693	3113	800	1590	300	420	233	257	567	2 x 1	7650	1256
50-15600-1100-OP	4753	1330	1364	548	633	1641	3113	800	1220	300	420	233	257	378	2 x 1	7110	720
50-15600-1200-OP	4804	1380	1465	548	633	1692	3113	800	1320	300	420	233	257	427	2 x 1	7160	860
50-15600-1300-OP	4907	1420	1575	548	633	1795	3113	800	1420	300	420	233	257	479	2 x 1	7650	1010
50-15600-1450-OP	4803	1599	1804	548	633	1693	3113	800	1590	300	500	233	257	567	2 x 1	7600	1256

ALGA / ALGAS / ALGAS-QA PNEUMATIC ACTUATOR

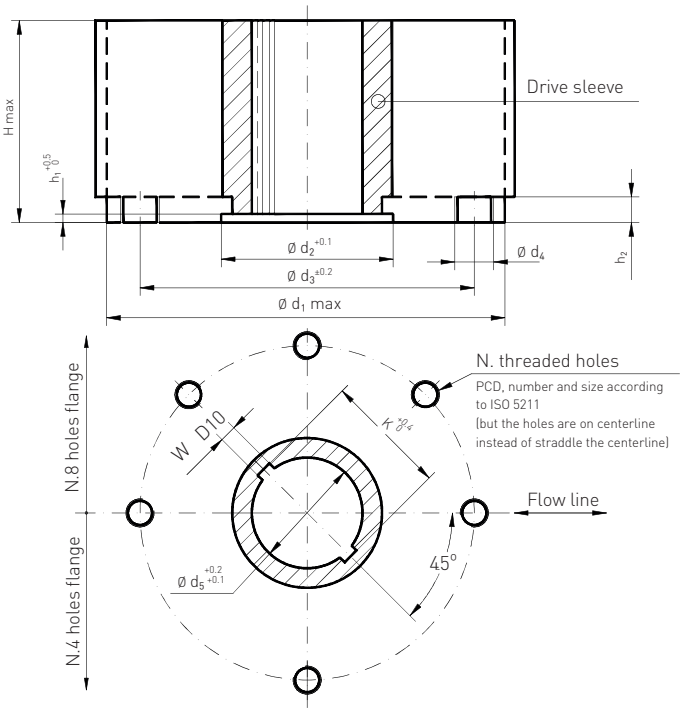
MOUNTING DIMENSIONS - COUPLINGS MODELS 0.1 TO 6

ACTUATOR MODEL 0.1



Top view of the Scotch yoke mechanism (actuator shown in closed position)

ACTUATOR MODELS 0.3 TO 6.0



Top view of the Scotch yoke mechanism (actuator shown in closed position)

COUPLING DIMENSIONS MODEL 0.1 (mm)

Actuator model	Ø d_1	Ø d_3	Ø d_4	Ø M	N	P	h_1	H max	W	K	X
0.1	220	102	M10	50	4	7	17	121	22	25	32

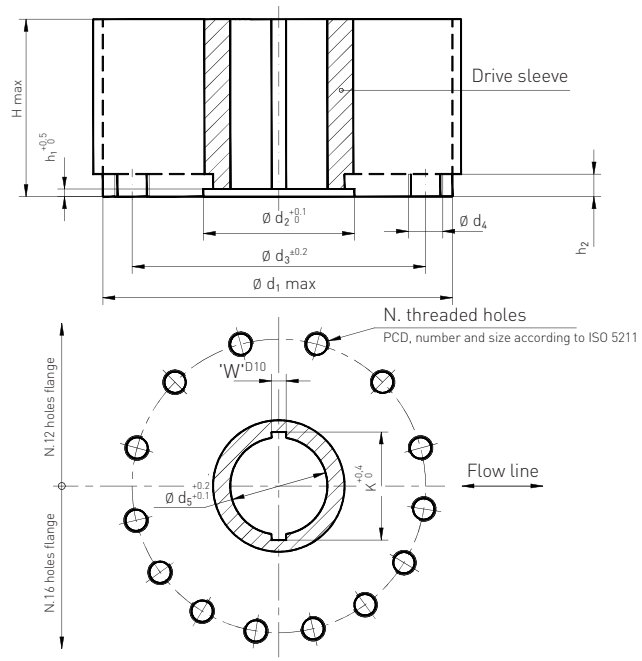
COUPLING DIMENSIONS (mm) MODELS 0.3 TO 0.6 (mm)

Actuator model	Ø d_1	Ø d_2	Ø d_3	Ø d_4	N	h_1	h_2	H max	Ø d_5	W	K
0.3	240	93	165	M20	4	5	17	127	70	12	75.6
0.9	310	112	254	M16	8	5	19	150	86	14	93.6
1.5	360	144	298	M20	8	6	19	190	112	18	119.0
3	430	195	356	M30	8	9	23	200	157	25	167.8
6	520	250	406	M36	8	14	29	260	200	28	212.8

Ø d_1 is maximum adapter flange diameter.

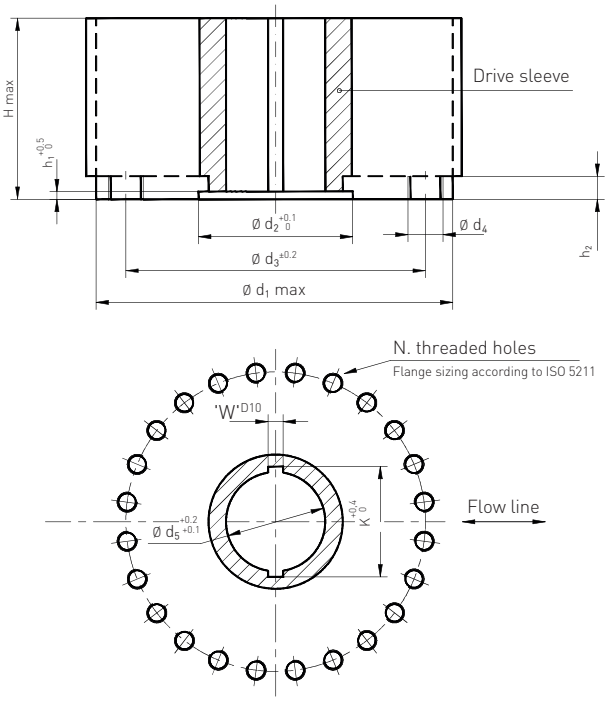
MOUNTING DIMENSIONS - COUPLINGS MODELS 14 TO 80

ACTUATOR MODELS 14 TO 32



Top view of the Scotch yoke mechanism
(actuator shown in closed position)

ACTUATOR MODELS 50 TO 80



Top view of the Scotch yoke mechanism
(actuator shown in closed position)

COUPLING DIMENSIONS (mm) MODELS 14 TO 32

Actuator model	Ø d_1	Ø d_2	Ø d_3	Ø d_4	N	h_1	h_2	H max	Ø d_5	W	K
14	580	250	483	M36	12	10	29	340	175	45	195.8
18	680	290	603	M36	16	12	32	350	200	45	220.8
32	780	290	603	M36	16	12	32	400	220	50	242.8

COUPLING DIMENSIONS (mm) MODELS 50 & 80

Actuator model	Ø d_1	Ø d_2	Ø d_3	Ø d_4	N	h_1	h_2	H max	Ø d_5	W	K
50	800	315	698	M36	24	10	32	430	240	56	264.8
80	900	370	813	M42	24	9	37	540	280	46	327.0

Ø d_1 is maximum adapter flange diameter.

MOUNTING DIMENSIONS - STEM ACCEPTANCE

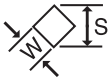
Square key



Rectangular key



Square stem



STEM ACCEPTANCE DIMENSIONS FOR INSERT BUSHES (mm)

Housing size	Max. stem diameter with square key (key dimension)	Max. stem diameter with rectangular key	Square stem W	Square stem S*	Maximum stem protrusion**
0.3	52(14)	55	46	64	120
0.9	66(16)	70	55	77	140
1.5	85(18)	90	73	103	180
3	120(32)	130	104	147	190
6	150(36)	170	133	188	250
14	175(38)	197	-	-	360
18	200(45)	220	-	-	360
32	200(45)	230	-	-	430
50	210(50)	240	-	-	440

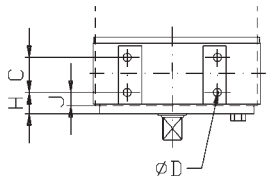
NOTES

1. The listed maximum acceptance values are applicable for stems with keyway parallel or perpendicular to the flow line and for square stems with diagonal parallel with the flow line.
2. Key according to UNI6604 or DIN 6885 sh.1 or BS4325 part 1 or ISO 773 or equivalent.
3. * S max: maximum external diameter in case of rounded edge.
4. ** Without adapter flange.

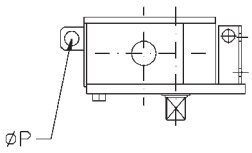
ACCESSORIES MOUNTING DIMENSIONS

Actuator model 0.1

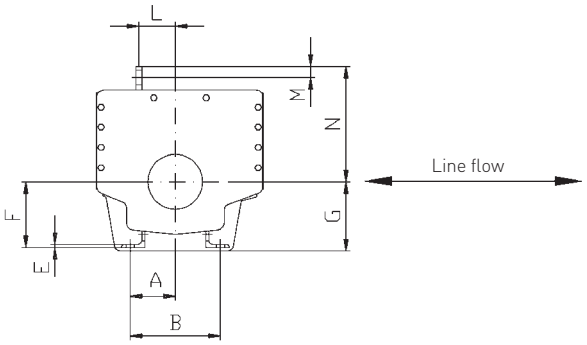
Front view



Side view

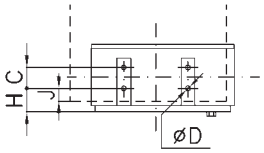


Top view

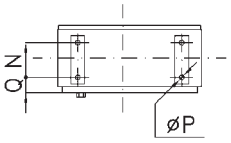


Actuator models 0.3 to 80

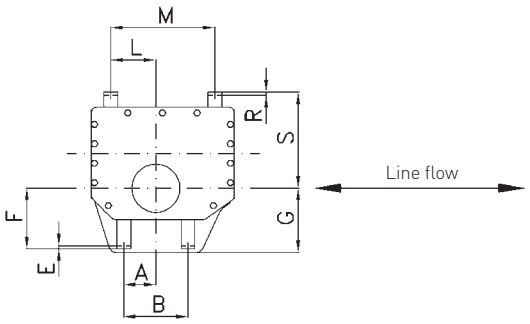
Front side



Back side



Top view

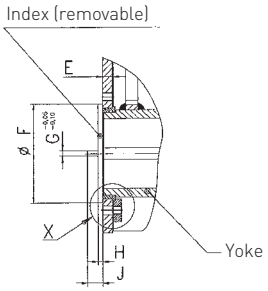


ACCESSORIES MOUNTING DIMENSIONS (mm)

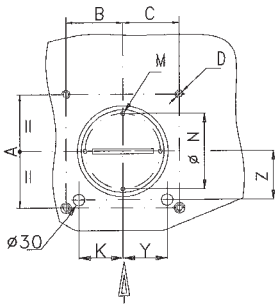
Actuator model	A	B	C	Ø D	E	F	G	H	J	L	M	N	Ø P	Q	R	S
0.1	77.5	155	60	14	11	113	119	37	12	62.5	19	198	25	-	-	-
0.3	77.5	155	60	14	5	113	119	37	12	92	200	60	14	36	5	200
0.9	92.5	185	60	14	5	155	170	61	35	85	200	60	14	48	5	243
1.5	92.5	185	60	14	5	175	185	62	35	130	300	100	14	45	5	284
3	117.5	235	85	23	8	203	215	57	25	230	500	100	14	54	5	371
6	137.0	455	115	23	8	248	260	59	22	224	500	100	14	87	8	480
14	315.0	630	200	27	10	227	330	97	55	220	500	170	27	99	8	543
18	315.0	630	200	27	10	235	340	72	32	306	680	215	27	80	10	600
32	315.0	630	200	27	10	385	395	72	32	414	890	215	27	149	10	660
50	387.5	860	250	30	12	372	387	77	35	473	1030	215	27	163	10	1072
80	500.0	1000	250	30	15	437.5	450	107	50	500	1100	215	27	270	15	900

ACCESSORIES MOUNTING HOLES ON ACTUATOR TOP (COVER AND YOKE)

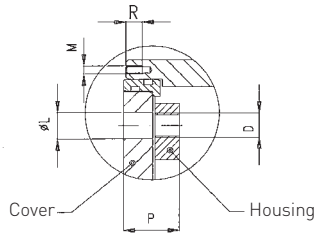
Side view

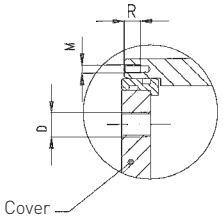


Top view



Front side





X : for model
0.9 - 1.5 - 6 - 18 - 32 - 50 -80

X : for model
0.3 - 3 - 14

The index is represented for actuator in end position (fully open or closed)

ACCESSORIES MOUNTING HOLES DIMENSIONS (mm)

Actuator model	A	B	C	D	E	Ø F	G	H	J	Ø L	M	Ø N	P	R	K	Y	Z
0.1	140	70	70	4 X M10	10	63	6	6.0	19	-	2 X M5	54	-	7	-	-	-
0.3	140	70	70	4 x M10	10	115	6	7.0	19	-	4 x M4	76	-	7	-	-	-
0.9	140	70	70	4 x M10	12	140	6	7.0	19	11.0	4 x M4	93	22	7	-	-	-
1.5	140	70	70	4 x M10	12	165	6	7.0	18	11.0	4 x M5	122	22	7	-	-	-
3	160	127	136	4 x M16	12	220	6	8.0	20	-	4 x M6	171	-	10	107	115	76
6	160	127	136	4 x M16	12	270	6	8.0	20	16.5	4 x M6	216	30	10	-	-	-
14	160	127	136	4 x M16	15	270	6	7.5	19.5	-	4 x M6	216	-	10	-	-	-
18	314	109	109	4 x M16	18	310	6	8.6	14	16.5	4 x M6	240	35	10	-	-	-
32	314	109	109	4 x M16	16	320	6	7.6	17	16.5	4 x M6	250	33	10	-	-	-
50	280.6	138.5	138.5	4 x M20	18	350	6	9.0	16	20.5	4 x M6	278	46	10	-	-	-
80	410	180	180	4 x M24	20	400	6	6.6	16	24.5	4 x M6	334	53	10	-	-	-

SCOTCH YOKE DOUBLE ACTING PNEUMATIC ACTUATORS

Actuator series	Actuator model	Yoke (C = canted, S = symmetric)	Number of cylinders	Cylinder size	
ALGA	MM	Y	C	SSS	= Model Number **ALGA**MMYC-SSS

SCOTCH YOKE SINGLE ACTING PNEUMATIC ACTUATORS

Actuator series	Actuator model	Yoke (C = canted, S = symmetric)	Spring size	Cylinder size	Fail mode (CL, OP)	
ALGAS	MM	Y	ZZZZ	SSS	XX	= Model Number **ALGAS**MMY-ZZZZ-SSSXX

Biffi reserve the the right to change product designs and specifications without notice.

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