



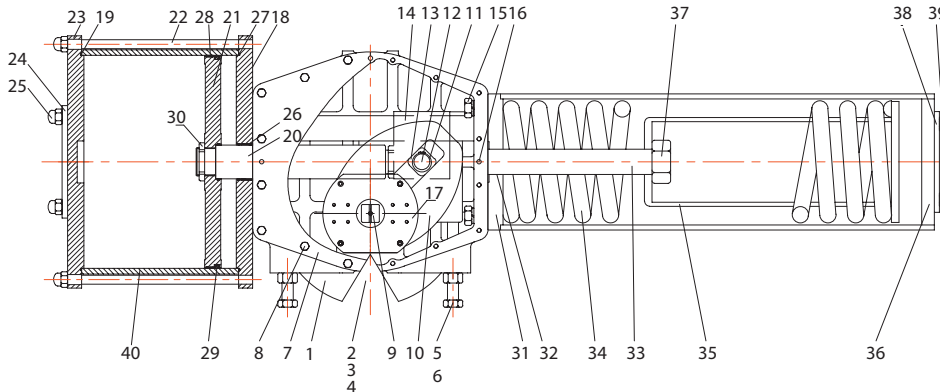
## A205 Series Heavy Duty Pneumatic Actuators

A205 Series heavy-duty pneumatic actuators are designed and manufactured for the pneumatic control of large-diameter quarter-turn valves that require high torque in demanding operating conditions. The central body features a scotch-yoke design, available in either symmetric (S) or canted (C) types, to generate alternative torque curves.



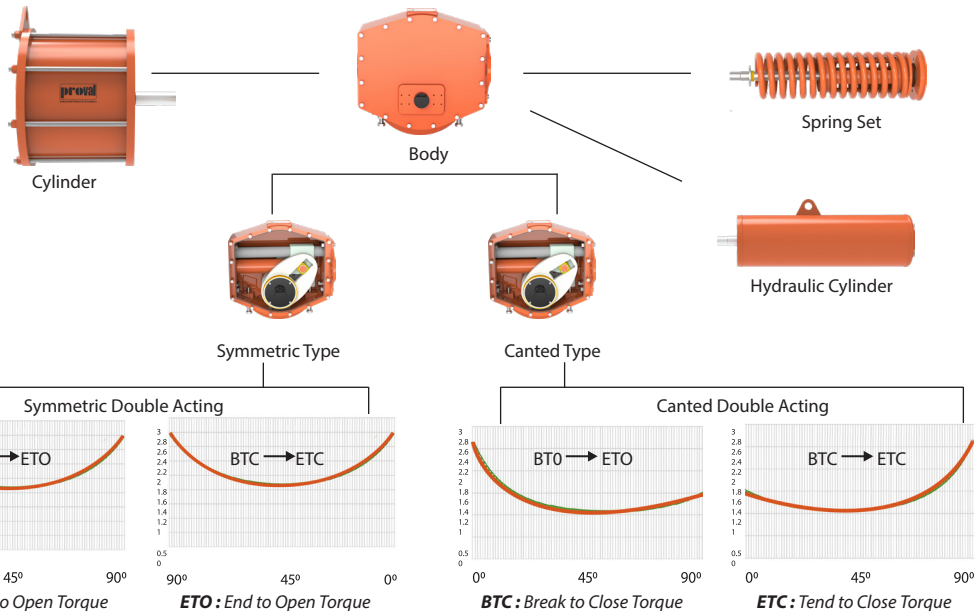
A205 Series heavy-duty pneumatic actuators are commonly preferred in the oil and gas, power generation, and manufacturing industries. These actuators stand out for their high performance, reliability, and long service life.

### Part List

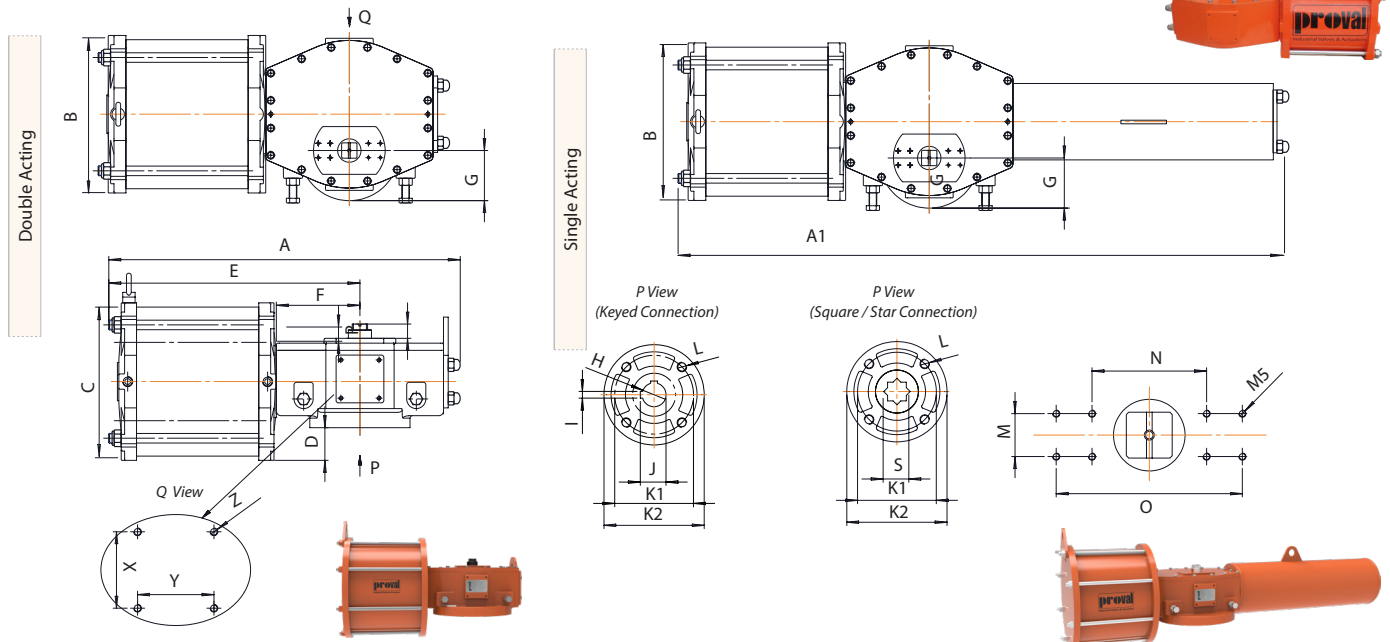


No.	Part	Material	No.	Part	Material	No.	Part	Material
1	Main Body	Ductile Iron / Aluminium	14	Slider Block 2	Carbon Steel	27	Front Cylinder Cover O Rings	Nbr
2	Lower Bushing	Carbon Steel + Alloy Steel	15	Connecting Bolt	Carbon Steel	28	Supporting Ring	Bronze + Ptfе
3	Bushing O Ring	Nbr	16	Pin	Stainless Steel	29	Piston O Ring	Nbr
4	Upper Bushing	Carbon Steel + Alloy Steel	17	Mounting Plate	Carbon Steel	30	Piston Tight Bolt	Carbon Steel
5	Adjusting Bolt	AISI304	18	Front Cylinder Cover	Carbon Steel	31	Spring Cartridge	Carbon Steel
6	Adjusting Nut	AISI304	19	O-Ring Of Cylinder Cover	Nbr	32	Guide Bushing Of Spring Rod	Carbon Steel
7	Body Cover	Ductile Iron / Aluminium	20	Piston Rod	Carbon Steel	33	Spring Rod	Carbon Steel
8	Body Cover Bolt	AISI304	21	Piston Rod	Carbon Steel	34	Spring	60Si2Mn
9	Indicator	Carbon Steel + Alloy Steel	22	Cylinder Rod	AISI304	35	Guide Bushing Of Spring Rod	Carbon Steel
10	Scotch Yoke	Ductile Iron	23	Black Cylinder Cover	Carbon Steel	36	End Cover Of Spring Cartridge	Carbon Steel
11	Pin Retainer	Carbon Steel + Alloy Steel	24	Lifting Plate	Carbon Steel	37	Tight Nut Of Spring Rod	Carbon Steel
12	Alex Pin	Alloy Steel	25	Rod Nut	AISI304	38	Hydraulic Cylinder	
13	Slider Block 1	Alloy Copper	26	Piston Rod Bushing	Carbon Steel + Alloy Steel	39	Cover Bolt	AISI304

### Modular Design



## A205 Series Heavy Duty Pneumatic Actuator Dimensions



Dimensions(mm)

Model	Dimension (mm)																				Air Connection (Rc)			
	A	A1		B	C (Ø)	D	E	F	G	H (Ø)	I	Max J (Ø)	K1 (F)	K2 (Ø)	S	L	M	N	O	P		X	U	Z
		4.0 Bar	5.0 Bar																					
A205SD01018	581	944	963	252,5	214	20	422	127	87,5	40	12	45	10/12/14	27/36	4-M16	30	80		20	40	40	4-M6	1/4"	
A205SD01020	581	968	998	278,5	266	46	422	127	87,5	40	12	45	10/12/14	27/36	4-M16	30	80		20	40	40	4-M6	3/8"	
A205SD01025	727	1182	1172	314	266	35	517	175	105	50	14	45	10/12/14	27/36	4-M20	30	80	130	30	80	80	4-M8	3/8"	
A205SD02025	736	1200	1223	341	320	62	526	175	105	50	14	60	14/16	27/36/46	4-M20	30	80	130	30	80	80	4-M8	3/8"	
A205SD02030	727	1263	1283	391	420	112	517	175	105	50	14	60	14/16	27/36/46	4-M20	30	80	130	30	80	80	4-M8	1/2"	
A205SD02035	832	1407	1427	480	420	97	588	208	175	80	22	60	14/16	298	27/36/46	8-M16	30	80	130	30	80	80	4-M8	3/4"
A205SD03035	832	1427	1452	495	450	112	588	208	175	80	22	90	16/25/30	298	46/55	8-M16	30	80	130	30	80	80	4-M8	3/4"
A205SD03038	832	1452	1497	50	500	137	588	208	175	80	22	90	16/25/30	298	46/55	8-M16	30	80	130	30	80	80	4-M8	3/4"
A205SD03043	1050	1757	1805	580,5	510	98	740	265	207,5	90	25	90	16/25/30	298	46/55	8-M20	30	80	130	30	100		4-M10	1"
A205SD04043	1050	1805	1845	605,5	560	123	740	265	207,5	90	25	110	24/30/35	356	55/75	8-M20	30	80	130	30	100		4-M10	1"
A205SD04048	1050	1845	1870	630,5	610	148	740	265	207,5	90	25	110	24/30/35	356	55/75	8-M20	30	80	130	30	100		4-M12	1"
A205SD04053	1360	2193	2225	687,5	610	141	985	315	237,5	120	32	110	24/30/35	356	55/75	8-M30	30	80	130	30	100		4-M12	1"
A205SD05053	1360	2234	2289	722,5	680	176	985	315	237,5	120	32	135	30/35/40	475	55/75	8-M30	30	80	130	30	100		4-M12	1"
A205SD05058	1360	2294	2339	752,5	740	206	985	315	237,5	120	32	135	30/35/40	475	55/75	8-M30	30	80	130	30	100		4-M12	1"
A205SD05063	1360	2339	2344	777,5	790	231	985	315	237,5	120	32	135	30/35/40	475	55/75	8-M30	30	80	130	30	100		4-M12	1"
A205SD05068	1594	2808	2874	814,5	790	185	1127	400	237,5	150	36	135	30/35/40	475	55/75	8-M36	30	80	130	30	160		4-M16	1"
A205SD06068	1594	2874	2964	839,5	840	210	1127	400	237,5	150	36	180	30/35/40	475	55/75	8-M36	30	80	130	30	160		4-M16	1"
A205SD06073	1594	2960	3090	884,5	930	255	1127	400	237,5	150	36	180	30/35/40	475	55/75	8-M36	30	80	130	30	160		4-M16	1-1/2"
A205SD06080	1637	3154	3234	864,5	890	235	1170	400	237,5	150	36	180	30/35/40	475	55/75	8-M36	30	80	130	30	160		4-M16	1-1/2"
A205SD06085	1965	3641	3741	948	856	199	1410	500	280	190	45	180	30/35/40	475	55/75	8-M36	30	80	130	30	180		4-M16	1-1/2"
A205SD07080	1965	3741	3891	993	946	244	1410	500	280	190	45	220	40/48	560		8-M36	30	80	130	30	180		4-M16	1-1/2"
A205SD07090	1965	3891	4045	1043	1046	294	1410	500	280	190	45	220	40/48	560		8-M36	30	80	130	30	180		4-M16	1-1/2"
A205SD07100	2310	4588	4952	1186	1046	240	1620	630	343	250	56	220	40/48	560		12-M36	30	80	130	30	200		4-M16	1-1/2"
A205SD08100	2310	5159	5393	1288	1250	342	1620	630	343	250	56	280	48/60	686		12-M36	30	80	130	30	200		4-M16	1-1/2"
A205SD08120	2310	5393	5642	1363	1410	420	1620	630	343	250	56	280	48/60	686		12-M36	30	80	130	30	200		4-M16	1-1/2"



### A205 Symmetric Type Actuators Torque Output Values (Nm)

MODEL	Air Supply Pressure											
	4.0Bar			5.0Bar			6.0Bar			7.0Bar		
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
A205SD01018	1041	578	1002	1301	723	1252	1561	867	1502	1822	1012	1753
A205SD01020	1285	714	1246	1606	892	1557	1928	1071	1869	2249	1249	2180
A205SD01025	2008	1115	1969	2510	1394	2461	3012	1673	2953	3514	1952	3445
A205SD02025	2631	1462	2546	3289	1827	3182	3947	2193	3819	4604	2558	4455
A205SD02030	3789	2105	3703	4736	2631	4629	5683	3157	5555	6630	3683	6481
A205SD02035	5157	2865	5072	6446	3581	6339	7735	4297	7607	9024	5014	8875
A205SD03035	6446	3581	6257	8057	4476	7821	9669	5372	9385	11280	6267	10949
A205SD03038	7598	4221	7409	9498	5277	9261	11398	6332	11113	13297	7387	12966
A205SD03043	9729	5405	9540	12162	6757	11925	14594	8108	14310	17027	9459	16695
A205SD04043	12085	6714	11765	15106	8392	14706	18128	10071	17647	21149	11749	20588
A205SD04048	15059	8366	14739	18824	10458	18423	22588	12549	22108	26353	14641	25793
A205SD04053	18360	10200	18039	22949	12750	22549	27539	15300	27059	32129	17850	31569
A205SD05053	22560	12534	22167	28201	15667	27709	33841	18800	33250	39481	21934	38792
A205SD05058	27018	15010	26624	33772	18762	33280	40527	22515	39937	47281	26267	46593
A205SD05063	31877	17709	31483	39846	22137	39354	47815	26564	47225	55785	30992	55096
A205SD05068	37138	20632	36744	46422	25790	45930	55706	30948	55116	64991	36106	64302
A205SD06068	46614	25897	45798	58268	32371	57247	69921	38845	68696	81575	45319	80146
A205SD06073	53721	29845	52905	67151	37306	66131	80582	44768	79357	94012	52229	92583
A205SD06080	64518	35843	63701	80647	44804	79627	96777	53765	95552	112906	62726	111477
A205SD06085	72835	40464	72018	91043	50580	90023	109252	60695	108027	127460	70811	126032
A205SD07080	85078	47266	83749	106348	59082	104686	127618	70899	125624	148887	82715	146561
A205SD07090	107677	59821	106348	134597	74776	132935	161516	89731	159522	188435	104686	186109
A205SD07100	132935	73853	131606	166169	92316	164507	199403	110779	197409	232636	129242	230310
A205SD08100	177247	98470	175102	221558	123088	218878	265870	147706	262653	310182	172323	306429
A205SD08120	255235	141797	253091	319044	177247	316363	382853	212696	379636	446662	248145	442909

### A205 Canted Type Actuators Torque Output Values (Nm)

MODEL	Air Supply Pressure											
	4.0Bar			5.0Bar			6.0Bar			7.0Bar		
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
A205CD01018	1249	578	886	1561	723	1108	1874	867	1329	2186	1012	1551
A205CD01020	1542	714	1102	1928	892	1378	2313	1071	1654	2699	1249	1929
A205CD01025	2409	1115	1742	3012	1394	2178	3614	1673	2613	4217	1952	3049
A205CD02025	3157	1462	2253	3947	1827	2816	4736	2193	3379	5525	2558	3943
A205CD02030	4546	2105	3277	5683	2631	4097	6820	3157	4916	7956	3683	5735
A205CD02035	6188	2865	4488	7735	3581	5610	9282	4297	6732	10829	5014	7854
A205CD03035	7735	3581	5537	9669	4476	6921	11603	5372	8305	13537	6267	9689
A205CD03038	9118	4221	6557	11398	5277	8196	13677	6332	9835	15957	7387	11474
A205CD03043	11675	5405	8443	14594	6757	10553	17513	8108	12664	20432	9459	14774
A205CD04043	14502	6714	10411	18128	8392	13014	21753	10071	15617	25379	11749	18220
A205CD04048	18071	8366	13043	22588	10458	16304	27106	12549	19565	31624	14641	22825
A205CD04053	22031	10200	15964	27539	12750	19955	33047	15300	23946	38555	17850	27937
A205CD05053	27073	12534	19617	33841	15667	24521	40609	18800	29425	47377	21934	34329
A205CD05058	32422	15010	23561	40527	18762	29452	48632	22515	35342	56738	26267	41232
A205CD05063	38252	17709	27861	47815	22137	34827	57379	26564	41792	66942	30992	48758
A205CD05068	44565	20632	32517	55706	25790	40646	66848	30948	48775	77989	36106	56905
A205CD06068	55937	25897	40529	69921	32371	50661	83905	38845	60793	97890	45319	70925
A205CD06073	64465	29845	46818	80582	37306	58523	96698	44768	70227	112814	52229	81932
A205CD06080	77421	35843	56373	96777	44804	70466	116132	53765	84559	135487	62726	98652
A205CD06085	87401	40464	63733	109252	50580	79666	131102	60695	95599	152953	70811	111532
A205CD07080	102094	47266	74114	127618	59082	92643	153141	70899	111171	178665	82715	129700
A205CD07090	129213	59821	94113	161516	74776	117642	193819	89731	141170	226123	104686	164698
A205CD07100	159522	73853	116465	199403	92316	145582	239283	110779	174698	279164	129242	203814
A205CD08100	212696	98470	154958	265870	123088	193697	319044	147706	232436	372218	172323	271176
A205CD08120	306282	141797	223974	382853	177247	279967	459423	212696	335961	535994	248145	391954

## A205 Symmetric Type Spring Return Actuators Torque Values (Nm) - Fail to Close

Model	Air Supply Pressure	Spring Torque			Air Supply Pressure											
					4.0Bar			5.0Bar			6.0Bar			7.0Bar		
		0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
A205SS01018AC	A - Min 4.0 bar	390	289	651	611	267	351	862	406	601	1112	545	852	1362	685	1102
A205SS01018BC	B - Min 5.0 bar	488	361	813				764	334	439	1014	473	689	1265	612	939
A205SS01020AC	A - Min 4.0 bar	482	357	803	764	335	443	1075	508	754	1387	681	1065	1698	854	1377
A205SS01020BC	B - Min 5.0 bar	602	446	1004				955	419	553	1266	592	865	1578	765	1176
A205SS01025AC	A - Min 4.0 bar	753	558	1255	1216	536	714	1708	809	1206	2200	1083	1698	2692	1356	2190
A205SS01025BC	B - Min 5.0 bar	941	697	1569				1519	670	892	2012	943	1384	2504	1217	1876
A205SS02025AC	A - Min 4.0 bar	987	731	1644	1559	683	901	2196	1037	1538	2832	1391	2174	3468	1744	2811
A205SS02025BC	B - Min 5.0 bar	1233	914	2055				1949	854	1127	2585	1208	1763	3222	1562	2400
A205SS02030AC	A - Min 4.0 bar	1421	1052	2368	2283	1005	1335	3209	1519	2261	4134	2034	3187	5060	2548	4113
A205SS02030BC	B - Min 5.0 bar	1776	1316	2960				2853	1256	1669	3779	1771	2595	4705	2285	3521
A205SS02035AC	A - Min 4.0 bar	1934	1432	3223	3138	1385	1849	4406	2089	3116	5674	2794	4384	6941	3498	5652
A205SS02035BC	B - Min 5.0 bar	2417	1791	4029				3922	1731	2311	5190	2436	3579	6458	3140	4846
A205SS03035AC	A - Min 4.0 bar	2417	1791	4029	3839	1685	2228	5403	2554	3792	6968	3423	5356	8532	4292	6920
A205SS03035BC	B - Min 5.0 bar	3022	2238	5036				4799	2107	2785	6363	2976	4349	7927	3845	5913
A205SS03038AC	A - Min 4.0 bar	2849	2111	4749	4560	2005	2660	6412	3034	4512	8264	4063	6364	10116	5092	8217
A205SS03038BC	B - Min 5.0 bar	3562	2638	5936				5699	2507	3325	7552	3536	5177	9404	4565	7029
A205SS03043AC	A - Min 4.0 bar	3649	2703	6081	5891	2597	3459	8276	3922	5844	10661	5247	8229	13047	6572	10614
A205SS03043BC	B - Min 5.0 bar	4561	3378	7601				7364	3247	4324	9749	4572	6709	12134	5897	9094
A205SS04043AC	A - Min 4.0 bar	4532	3357	7553	7233	3179	4212	10174	4813	7153	13115	6447	10094	16056	8081	13035
A205SS04043BC	B - Min 5.0 bar	5665	4196	9441				9041	3974	5265	11982	5608	8206	14923	7242	11147
A205SS04048AC	A - Min 4.0 bar	5647	4183	9412	9092	4005	5327	12776	6052	9011	16461	8099	12696	20146	10146	16381
A205SS04048BC	B - Min 5.0 bar	7059	5229	11765				11364	5006	6659	15049	7053	10343	18734	9100	14028
A205SS04053AC	A - Min 4.0 bar	6885	5100	11475	11154	4922	6565	15664	7427	11074	20174	9933	15584	24684	12438	20094
A205SS04053BC	B - Min 5.0 bar	8606	6375	14343				13943	6152	8206	18453	8658	12716	22963	11163	17225
A205SS05053AC	A - Min 4.0 bar	8460	6267	14100	13707	6048	8067	19248	9127	13608	24790	12206	19150	30332	15284	24692
A205SS05053BC	B - Min 5.0 bar	10575	7833	17625				17133	7560	10083	22675	10639	15625	28217	13718	21167
A205SS05058AC	A - Min 4.0 bar	10132	7505	16886	16493	7286	9738	23149	10984	16394	29805	14682	23050	36461	18380	29706
A205SS05058BC	B - Min 5.0 bar	12665	9381	21108				20616	9108	12173	27272	12806	18829	33928	16504	25485
A205SS05063AC	A - Min 4.0 bar	11954	8855	19923	19530	8636	11560	27400	13009	19431	35271	17381	27302	43142	21754	35173
A205SS05063BC	B - Min 5.0 bar	14942	11068	24904				24412	10795	14450	32283	15168	22321	40154	19541	30192
A205SS05068AC	A - Min 4.0 bar	13927	10316	23211	22817	10097	13533	32003	15201	22719	41190	20304	31905	50376	25407	41091
A205SS05068BC	B - Min 5.0 bar	17408	12895	29014				28522	12622	16916	37708	17725	26102	46894	22828	35288
A205SS06068AC	A - Min 4.0 bar	17480	12948	29134	28317	12495	16664	39767	18855	28113	51216	25216	39563	62665	31577	51012
A205SS06068BC	B - Min 5.0 bar	21850	16185	36417				35397	15618	20830	46846	21979	32279	58295	28340	43728
A205SS06073AC	A - Min 4.0 bar	20145	14923	33576	32759	14469	19329	45985	21817	32555	59211	29165	45781	72438	36512	59007
A205SS06073BC	B - Min 5.0 bar	25182	18653	41970				40949	18086	24161	54175	25434	37387	67401	32782	50613
A205SS06080AC	A - Min 4.0 bar	24194	17922	40324	39507	17468	23378	55432	26315	39303	71358	35163	55228	87283	44010	71154
A205SS06080BC	B - Min 5.0 bar	30243	22402	50405				49384	21835	29222	65309	30682	45147	81234	39530	61073
A205SS06085AC	A - Min 4.0 bar	27313	20232	45522	44705	19778	26496	62710	29781	44501	80714	39783	62505	98719	49786	80510
A205SS06085BC	B - Min 5.0 bar	34141	25290	56902				55881	24723	33121	73886	34725	51125	91890	44728	69130
A205SS07080AC	A - Min 4.0 bar	31904	23633	53174	51845	22894	30575	72782	34526	51512	93719	46158	72450	114656	57790	93387
A205SS07080BC	B - Min 5.0 bar	39881	29541	66468				64806	28618	38219	85743	40250	59156	106680	51882	80093
A205SS07090AC	A - Min 4.0 bar	40379	29910	67298	65969	29172	39050	92556	43942	65637	119143	58713	92224	145730	73484	118811
A205SS07090BC	B - Min 5.0 bar	50474	37388	84123				82461	36465	48812	109048	51235	75399	135635	66006	101986
A205SS07100AC	A - Min 4.0 bar	49851	36926	83084	81755	36188	48521	114656	54466	81423	147558	72745	114324	180459	91024	147226
A205SS07100BC	B - Min 5.0 bar	62313	46158	103856				102194	45235	60652	135095	63513	93553	167997	81792	126454
A205SS08100AC	A - Min 4.0 bar	66468	49235	110779	108635	48044	64323	152410	72363	108098	196186	96683	151874	239961	121003	195649
A205SS08100BC	B - Min 5.0 bar	83084	61544	138474				135793	60055	80404	179569	84374	124179	223344	108694	167955
A205SS08120AC	A - Min 4.0 bar	95713	70899	159522	157377	69707	93569	220650	104859	156841	283923	140010	220114	347195	175162	283386
A205SS08120BC	B - Min 5.0 bar	119642	88623	199403				196722	87134	116961	259994	122285	180233	323267	157437	243506



### A205 Symmetric Type Spring Return Actuators Torque Values (Nm) - Fail to Open

Model	Air Supply Pressure	Spring Torque Value			Air Supply Pressure											
					4.0Bar			5.0Bar			6.0Bar			7.0Bar		
		0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
A205SS01018AO	A - Min 4.0 bar	651	289	390	351	267	611	601	406	862	852	545	1112	1102	685	1362
A205SS01018BO	B - Min 5.0 bar	813	361	488				439	334	764	689	473	1014	939	612	1265
A205SS01020AO	A - Min 4.0 bar	803	357	482	443	335	764	754	508	1075	1065	681	1387	1377	854	1698
A205SS01020BO	B - Min 5.0 bar	1004	446	602				553	419	955	865	592	1266	1176	765	1578
A205SS01025AO	A - Min 4.0 bar	1255	558	753	714	536	1216	1206	809	1708	1698	1083	2200	2190	1356	2692
A205SS01025BO	B - Min 5.0 bar	1569	697	941				892	670	1519	1384	943	2012	1876	1217	2504
A205SS02025AO	A - Min 4.0 bar	1644	731	987	901	683	1559	1538	1037	2196	2174	1391	2832	2811	1744	3468
A205SS02025BO	B - Min 5.0 bar	2055	914	1233				1127	854	1949	1763	1208	2585	2400	1562	3222
A205SS02030AO	A - Min 4.0 bar	2368	1052	1421	1335	1005	2283	2261	1519	3209	3187	2034	4134	4113	2548	5060
A205SS02030BO	B - Min 5.0 bar	2960	1316	1776				1669	1256	2853	2595	1771	3779	3521	2285	4705
A205SS02035AO	A - Min 4.0 bar	3223	1432	1934	1849	1385	3138	3116	2089	4406	4384	2794	5674	5652	3498	6941
A205SS02035BO	B - Min 5.0 bar	4029	1791	2417				2311	1731	3922	3579	2436	5190	4846	3140	6458
A205SS03035AO	A - Min 4.0 bar	4029	1791	2417	2228	1685	3839	3792	2554	5403	5356	3423	6968	6920	4292	8532
A205SS03035BO	B - Min 5.0 bar	5036	2238	3022				2785	2107	4799	4349	2976	6363	5913	3845	7927
A205SS03038AO	A - Min 4.0 bar	4749	2111	2849	2660	2005	4560	4512	3034	6412	6364	4063	8264	8217	5092	10116
A205SS03038BO	B - Min 5.0 bar	5936	2638	3562				3325	2507	5699	5177	3536	7552	7029	4565	9404
A205SS03043AO	A - Min 4.0 bar	6081	2703	3649	3459	2597	5891	5844	3922	8276	8229	5247	10661	10614	6572	13047
A205SS03043BO	B - Min 5.0 bar	7601	3378	4561				4324	3247	7364	6709	4572	9749	9094	5897	12134
A205SS04043AO	A - Min 4.0 bar	7553	3357	4532	4212	3179	7233	7153	4813	10174	10094	6447	13115	13035	8081	16056
A205SS04043BO	B - Min 5.0 bar	9441	4196	5665				5265	3974	9041	8206	5608	11982	11147	7242	14923
A205SS04048AO	A - Min 4.0 bar	9412	4183	5647	5327	4005	9092	9011	6052	12776	12696	8099	16461	16381	10146	20146
A205SS04048BO	B - Min 5.0 bar	11765	5229	7059				6659	5006	11364	10343	7053	15049	14028	9100	18734
A205SS04053AO	A - Min 4.0 bar	11475	5100	6885	6565	4922	11154	11074	7427	15664	15584	9933	20174	20094	12438	24684
A205SS04053BO	B - Min 5.0 bar	14343	6375	8606				8206	6152	13943	12716	8658	18453	17225	11163	22963
A205SS05053AO	A - Min 4.0 bar	14100	6267	8460	8067	6048	13707	13608	9127	19248	19150	12206	24790	24692	15284	30332
A205SS05053BO	B - Min 5.0 bar	17625	7833	10575				10083	7560	17133	15625	10639	22675	21167	13718	28217
A205SS05058AO	A - Min 4.0 bar	16886	7505	10132	9738	7286	16493	16394	10984	23149	23050	14682	29805	29706	18380	36461
A205SS05058BO	B - Min 5.0 bar	21108	9381	12665				12173	9108	20616	18829	12806	27272	25485	16504	33928
A205SS05063AO	A - Min 4.0 bar	19923	8855	11954	11560	8636	19530	19431	13009	27400	27302	17381	35271	35173	21754	43142
A205SS05063BO	B - Min 5.0 bar	24904	11068	14942				14450	10795	24412	22321	15168	32283	30192	19541	40154
A205SS05068AO	A - Min 4.0 bar	23211	10316	13927	13533	10097	22817	22719	15201	32003	31905	20304	41190	41091	25407	50376
A205SS05068BO	B - Min 5.0 bar	29014	12895	17408				16916	12622	28522	26102	17725	37708	35288	22828	46894
A205SS06068AO	A - Min 4.0 bar	29134	12948	17480	16664	12495	28317	28113	18855	39767	39563	25216	51216	51012	31577	62665
A205SS06068BO	B - Min 5.0 bar	36417	16185	21850				20830	15618	35397	32279	21979	46846	43728	28340	58295
A205SS06073AO	A - Min 4.0 bar	33576	14923	20145	19329	14469	32759	32555	21817	45985	45781	29165	59211	59007	36512	72438
A205SS06073BO	B - Min 5.0 bar	41970	18653	25182				24161	18086	40949	37387	25434	54175	50613	32782	67401
A205SS06080AO	A - Min 4.0 bar	40324	17922	24194	23378	17468	39507	39303	26315	55432	55228	35163	71358	71154	44010	87283
A205SS06080BO	B - Min 5.0 bar	50405	22402	30243				29222	21835	49384	45147	30682	65309	61073	39530	81234
A205SS06085AO	A - Min 4.0 bar	45522	20232	27313	26496	19778	44705	44501	29781	62710	62505	39783	80714	80510	49786	98719
A205SS06085BO	B - Min 5.0 bar	56902	25290	34141				33121	24723	55881	51125	34725	73886	69130	44728	91890
A205SS07080AO	A - Min 4.0 bar	53174	23633	31904	30575	22894	51845	51512	34526	72782	72450	46158	93719	93387	57790	114656
A205SS07080BO	B - Min 5.0 bar	66468	29541	39881				38219	28618	64806	59156	40250	85743	80093	51882	106680
A205SS07090AO	A - Min 4.0 bar	67298	29910	40379	39050	29172	65969	65637	43942	92556	92224	58713	119143	118811	73484	145730
A205SS07090BO	B - Min 5.0 bar	84123	37388	50474				48812	36465	82461	75399	51235	109048	101986	66006	135635
A205SS07100AO	A - Min 4.0 bar	83084	36926	49851	48521	36188	81755	81423	54466	114656	114324	72745	147558	147226	91024	180459
A205SS07100BO	B - Min 5.0 bar	103856	46158	62313				60652	45235	102194	93553	63513	135095	126454	81792	167997
A205SS08100AO	A - Min 4.0 bar	110779	49235	66468	64323	48044	108635	108098	72363	152410	151874	96683	196186	195649	121003	239961
A205SS08100BO	B - Min 5.0 bar	138474	61544	83084				80404	60055	135793	124179	84374	179569	167955	108694	223344
A205SS08120AO	A - Min 4.0 bar	159522	70899	95713	93569	69707	157377	156841	104859	220650	220114	140010	283923	283386	175162	347195
A205SS08120BO	B - Min 5.0 bar	199403	88623	119642				116961	87134	196722	180233	122285	259994	243506	157437	323267

### A205 Canted Type Spring Return Actuators Torque Values (Nm) - Fail to Close

Model	Air Supply	Spring Torque Value			Air Supply Pressure											
					4.0Bar			5.0Bar			6.0Bar			7.0Bar		
		0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
A205CS01018AC	A - Min 4.0 bar	562	401	691	687	178	195	999	322	417	1312	467	639	1624	611	860
A205CS01018BC	B - Min 5.0 bar	703	501	864				859	222	244	1171	366	466	1483	511	687
A205CS01020AC	A - Min 4.0 bar	694	495	853	848	219	249	1234	398	525	1619	576	801	2005	755	1076
A205CS01020BC	B - Min 5.0 bar	867	618	1066				1060	274	312	1446	452	587	1831	631	863
A205CS01025AC	A - Min 4.0 bar	1084	773	1333	1325	342	409	1928	621	845	2530	900	1280	3132	1179	1716
A205CS01025BC	B - Min 5.0 bar	1355	966	1666				1656	428	512	2259	707	947	2861	986	1383
A205CS02025AC	A - Min 4.0 bar	1421	1013	1746	1736	449	507	2526	814	1070	3315	1180	1633	4104	1545	2196
A205CS02025BC	B - Min 5.0 bar	1776	1266	2183				2171	561	633	2960	926	1197	3749	1292	1760
A205CS02030AC	A - Min 4.0 bar	2046	1459	2515	2501	646	763	3637	1172	1582	4774	1699	2401	5910	2225	3221
A205CS02030BC	B - Min 5.0 bar	2557	1823	3143				3126	808	953	4262	1334	1773	5399	1860	2592
A205CS02035AC	A - Min 4.0 bar	2785	1985	3423	3403	880	1065	4951	1596	2187	6498	2312	3309	8045	3028	4431
A205CS02035BC	B - Min 5.0 bar	3481	2482	4278				4254	1099	1332	5801	1816	2454	7348	2532	3576
A205CS03035AC	A - Min 4.0 bar	3481	2482	4278	4254	1099	1258	6188	1995	2643	8122	2890	4027	10056	3785	5411
A205CS03035BC	B - Min 5.0 bar	4351	3102	5348				5318	1374	1573	7252	2270	2957	9185	3165	4341
A205CS03038AC	A - Min 4.0 bar	4103	2925	5043	5015	1296	1513	7294	2351	3153	9574	3407	4792	11853	4462	6431
A205CS03038BC	B - Min 5.0 bar	5129	3657	6304				6269	1620	1892	8548	2675	3531	10828	3731	5170
A205CS03043AC	A - Min 4.0 bar	5254	3746	6458	6421	1659	1985	9340	3011	4096	12259	4362	6206	15178	5713	8317
A205CS03043BC	B - Min 5.0 bar	6567	4682	8072				8027	2074	2481	10946	3426	4592	13864	4777	6702
A205CS04043AC	A - Min 4.0 bar	6526	4653	8021	7976	2061	2390	11602	3740	4993	15227	5418	7596	18853	7097	10199
A205CS04043BC	B - Min 5.0 bar	8157	5816	10026				9970	2576	2988	13596	4255	5591	17221	5933	8193
A205CS04048AC	A - Min 4.0 bar	8132	5798	9995	9939	2568	3048	14457	4660	6309	18974	6751	9570	23492	8843	12830
A205CS04048BC	B - Min 5.0 bar	10165	7247	12494				12424	3210	3810	16941	5302	7071	21459	7393	10332
A205CS04053AC	A - Min 4.0 bar	9914	7068	12186	12117	3131	3778	17625	5681	7769	23133	8231	11760	28641	10781	15751
A205CS04053BC	B - Min 5.0 bar	12393	8836	15232				15147	3914	4723	20654	6464	8714	26162	9014	12705
A205CS05053AC	A - Min 4.0 bar	12183	8686	14974	14890	3848	4643	21658	6981	9547	28426	10115	14451	35194	13248	19356
A205CS05053BC	B - Min 5.0 bar	15228	10857	18717				18612	4810	5804	25381	7943	10708	32149	11077	15612
A205CS05058AC	A - Min 4.0 bar	14590	10402	17932	17832	4608	5629	25937	8361	11520	34043	12113	17410	42148	15866	23300
A205CS05058BC	B - Min 5.0 bar	18237	13002	22415				22290	5760	7036	30395	9513	12927	38501	13265	18817
A205CS05063AC	A - Min 4.0 bar	17214	12273	21157	21039	5437	6704	30602	9864	13670	40165	14292	20635	49728	18719	27600
A205CS05063BC	B - Min 5.0 bar	21517	15341	26447				26299	6796	8380	35862	11223	15346	45425	15651	22311
A205CS05068AC	A - Min 4.0 bar	20054	14298	24649	24511	6334	7868	35652	11492	15997	46793	16650	24126	57935	21808	32256
A205CS05068BC	B - Min 5.0 bar	25068	17872	30811				30639	7918	9835	41780	13076	17964	52921	18234	26093
A205CS06068AC	A - Min 4.0 bar	25172	17946	30939	30765	7950	9590	44750	14424	19722	58734	20899	29855	72718	27373	39987
A205CS06068BC	B - Min 5.0 bar	31465	22433	38673				38457	9938	11988	52441	16412	22120	66425	22886	32252
A205CS06073AC	A - Min 4.0 bar	29009	20683	35656	35456	9162	11163	51572	16624	22867	67689	24085	34572	83805	31546	46276
A205CS06073BC	B - Min 5.0 bar	36262	25853	44570				44320	11453	13953	60436	18914	25658	76553	26376	37362
A205CS06080AC	A - Min 4.0 bar	34840	24839	42822	42582	11004	13551	61937	19965	27644	81292	28925	41738	100648	37886	55831
A205CS06080BC	B - Min 5.0 bar	43550	31049	53527				53227	13755	16939	72583	22716	31032	91938	31676	45125
A205CS06085AC	A - Min 4.0 bar	39331	28041	48342	48071	12422	15391	69921	22538	31324	91772	32654	47258	113622	42770	63191
A205CS06085BC	B - Min 5.0 bar	49163	35052	60427				60089	15528	19239	81939	25644	35172	103789	35760	51105
A205CS07080AC	A - Min 4.0 bar	45942	32755	56468	56152	14511	17646	81675	26327	36175	107199	38143	54703	132722	49960	73232
A205CS07080BC	B - Min 5.0 bar	57428	40944	70585				70190	18138	22058	95713	29955	40586	121237	41771	59115
A205CS07090AC	A - Min 4.0 bar	58146	41456	71467	71067	18365	22646	103370	33320	46174	135674	48275	69703	167977	63231	93231
A205CS07090BC	B - Min 5.0 bar	72682	51820	89334				88834	22956	28308	121137	37911	51836	153440	52867	75364
A205CS07100AC	A - Min 4.0 bar	71785	51180	88231	87737	22673	28234	127618	41136	57350	167498	59599	86467	207379	78062	115583
A205CS07100BC	B - Min 5.0 bar	89731	63975	110289				109671	28341	35292	149552	46804	64409	189432	65267	93525
A205CS08100AC	A - Min 4.0 bar	95713	68240	117642	116983	30230	37316	170157	54848	76055	223331	79466	114795	276505	104083	153534
A205CS08100BC	B - Min 5.0 bar	119642	85300	147052				146229	37788	46645	199403	62406	85384	252577	87023	124124
A205CS08120AC	A - Min 4.0 bar	137827	98266	169404	168455	43532	54570	245026	78981	110564	321596	114430	166557	398167	149880	222551
A205CS08120BC	B - Min 5.0 bar	172284	122832	211755				210569	54415	68213	287140	89864	124206	363710	125313	180200