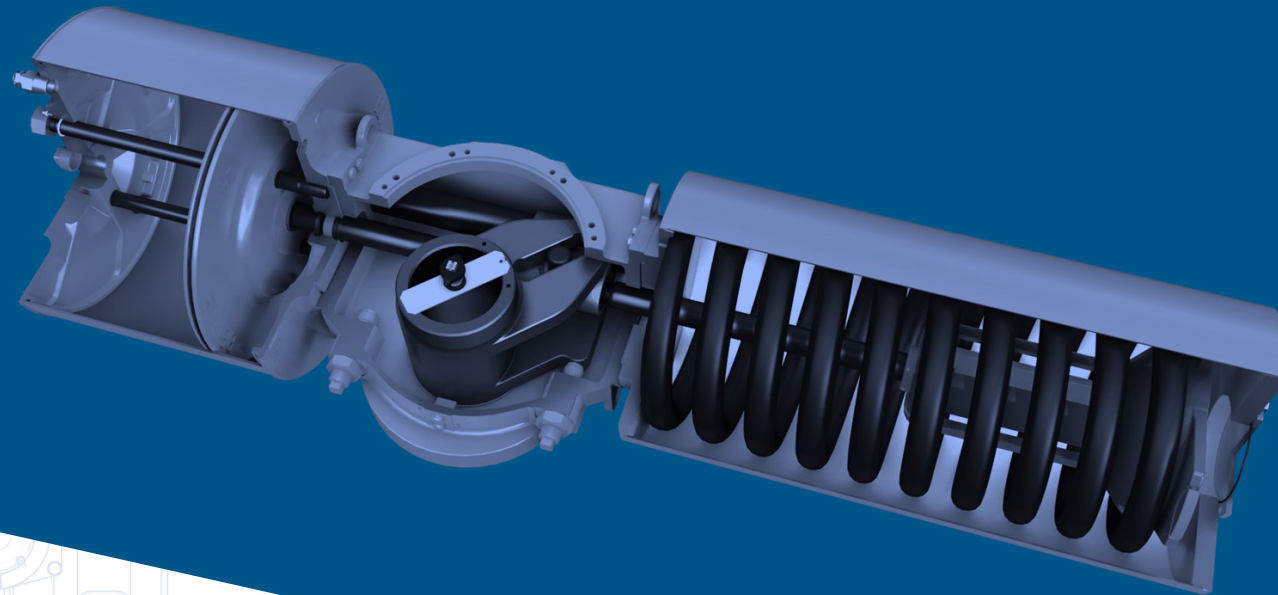




PNEUMATIC AND HYDRAULIC ROTARY ACTUATORS

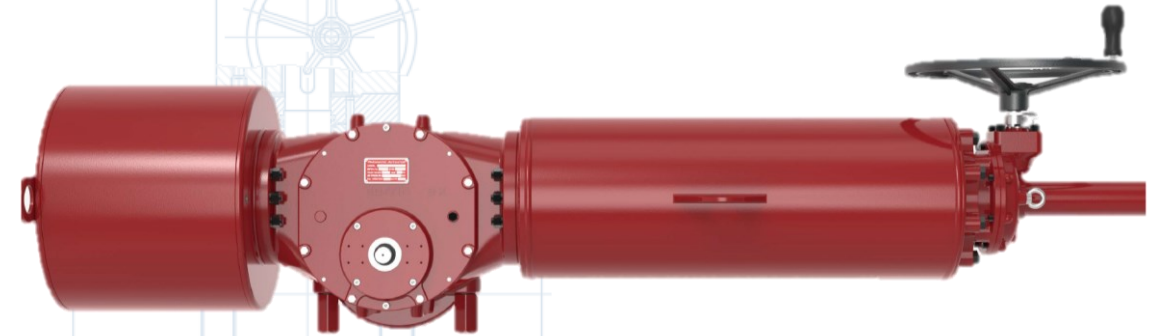


HEAVY DUTY PNEUMATIC ACTUATORS

HEAVY DUTY



Double action
Single cylinder



Single action
Spring return, with handwheel



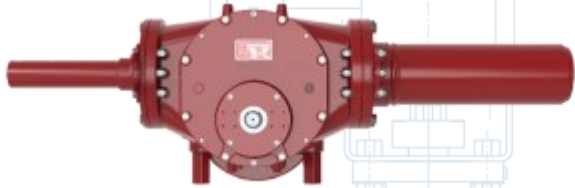
Double action
Double cylinder

Special features:

- Hydraulic actuation lever
- With pressure accumulator (buffer)
- Carbon steel or Stainless steel material
- Front or side handwheel.

HEAVY DUTY HYDRAULIC ACTUATORS

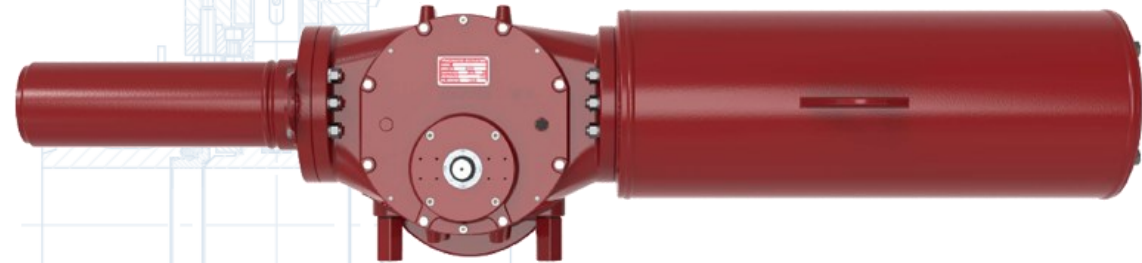
HEAVY DUTY



Double action
Single cylinder



Double action
Double cylinder



Single action
Spring return

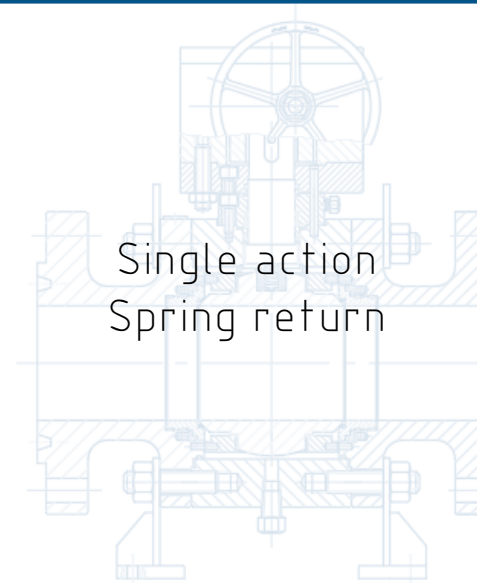
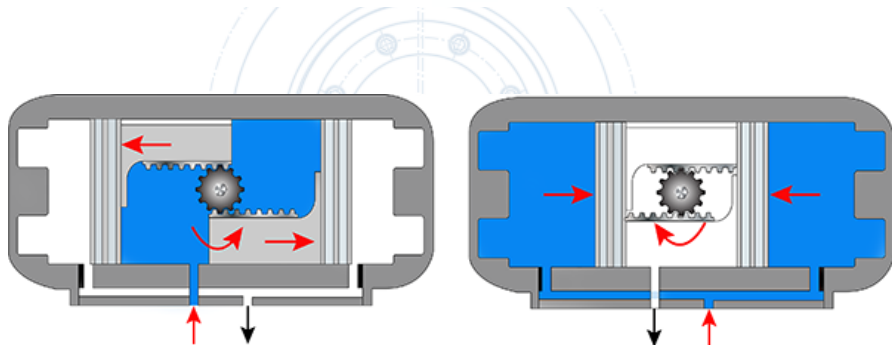
Special features:

- Actuation lever pump
- With pressure accumulator (buffer)
- Carbon steel or Stainless steel material
- Front or side handwheel.

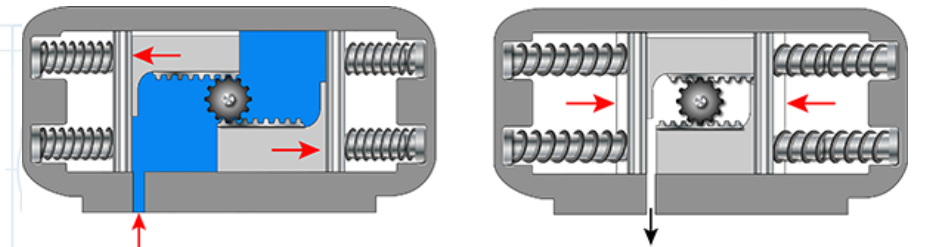
LIGHT PNEUMATIC ACTUATOR



Double action
Double cylinder



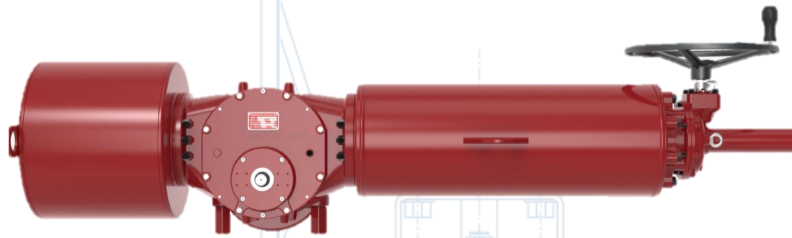
Single action
Spring return



Special features:

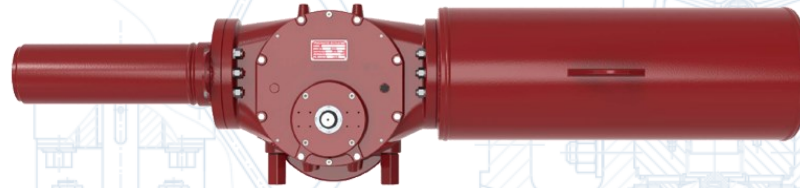
- Aluminum or Stainless Steel material
- NAMUR assembly

FEATURES



Pneumatic Actuators

- 90° Rotary valves (1/4)
- RT01 – symmetrical design
- RT02 – High Torque
- Hard Chromium coating on cylinder
- Easy installation and maintenance
- ISO 5211
- RT Spring return up to 120,000 N.m
- RT Double action up to 240,000 N.m
- Working temperature: -40°C to 150 °C
- IP65 protection class



Hydraulic Actuators



Pneumatic Light Actuators

- 90° rotating valves
- Up to 8,300 N.m
- Extruded Aluminum ASTM 6005 with internal and external corrosion protection
- Symetric mounting
- Fast operation
- NAMUR connections
- Fully machined

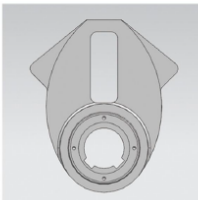
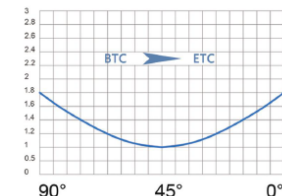
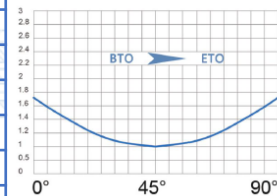
HEAVY DUTY PNEUMATIC ACTUATOR

DOUBLE ACTION

TORQUE TABLE

MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT01-D01-18	1041	578	1002	1235	723	1252	1552	882	1582	1912	1012	1735
RT01-D01-20	1285	714	1246	1606	892	1557	1928	1071	1869	2242	1249	2180
RT01-D01-25	2008	1115	1969	2510	1394	2461	3012	1673	2953	3514	1952	3445
RT01-D02-25	2631	1462	2546	3289	1827	3182	3947	2193	3819	4604	2558	4445
RT01-D02-30	3789	2105	3703	4736	2631	4629	5683	3157	5555	6630	3683	6481
RT01-D02-35	5147	2865	5072	6446	3581	6339	7735	4297	7607	9024	5014	8879
RT01-D03-35	6446	3581	6257	8057	4476	7821	9696	5372	9385	11280	6627	10949
RT01-D03-38	7598	4221	7409	9498	5277	9261	11398	6332	11113	13297	7387	12966
RT01-D03-43	9729	5405	9540	12162	6757	11925	14594	8108	14310	17027	9459	16695
RT01-D04-43	12085	6714	11765	15106	8392	14706	18128	10071	17647	21149	11749	20588
RT01-D04-48	15059	8366	14739	18824	10458	18423	22528	12549	22108	26353	14641	25793
RT01-D04-53	18360	10200	18039	22949	12750	22549	27539	15300	27032	32129	17513	31569
RT01-D05-53	22560	12534	22167	28201	15667	27709	33841	18800	33250	39481	21934	38792
RT01-D05-58	27018	15010	26624	33772	18762	33280	40527	22515	39937	47281	26267	46598
RT01-D05-63	31877	17790	31483	39846	22137	39354	47815	26564	47225	55785	30992	55099
RT01-D05-68	37138	20632	36744	46422	25790	45930	55706	30948	55116	64991	36106	64302
RT01-D06-68	46614	25897	45798	58268	32371	57247	68921	38854	68696	81575	45319	80146
RT01-D06-73	53721	29845	52905	67151	37306	66131	80528	44786	79357	94012	52229	92578
RT01-D06-80	64815	35843	63701	80647	44804	79627	97767	53765	95552	112906	62726	111477
RT01-D06-85	78335	40464	72018	91043	50580	90023	109252	60659	108027	127460	70811	126032
RT01-D07-80	85078	47286	83749	103488	57146	102365	125842	70364	125624	148132	83481	146681
RT01-D07-90	107677	58981	106843	134587	74776	132935	161518	89732	159552	188435	104868	186160
RT01-D07-100	139253	73853	131606	166169	92316	164507	194093	110779	197409	232636	129242	230310
RT01-D08-100	177247	98470	175102	221558	123088	218878	265870	147706	262635	310182	172323	306429
RT01-D08-120	255235	141797	253091	319044	177247	316363	382853	212696	379636	446662	248145	442809

Symmetric Double Acting

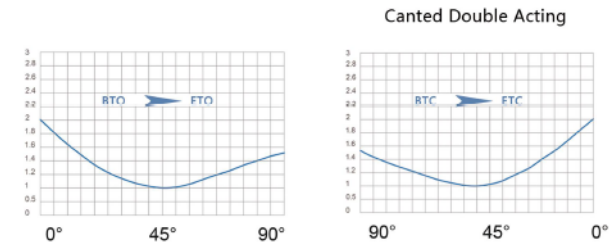
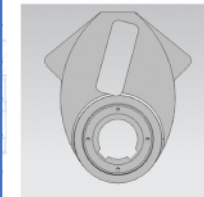


HEAVY DUTY PNEUMATIC ACTUATOR

DOUBLE ACTION

TORQUE TABLE

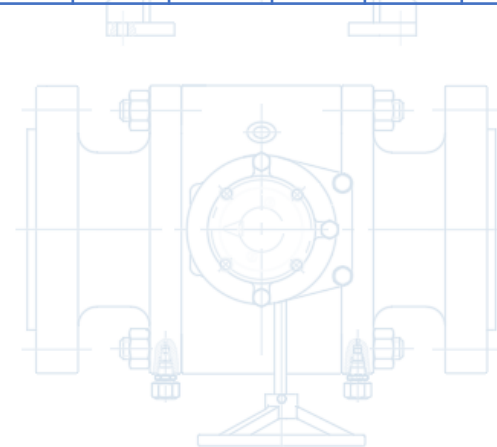
MODEL	4.0Bar 0°	4.0Bar R*	4.0Bar 90°	5.0Bar 0°	5.0Bar R*	5.0Bar 90°	6.0Bar 0°	6.0Bar R*	6.0Bar 90°	7.0Bar 0°	7.0Bar R*	7.0Bar 90°
RT02-D01-18	1249	578	886	1561	723	1108	1874	867	1329	2186	1012	1551
RT02-D01-20	1542	714	1102	1928	892	1378	2313	1071	1654	2699	1259	1936
RT02-D01-25	2009	1115	1742	3012	1394	2178	3614	1673	2613	4217	1952	3049
RT02-D02-25	3157	1462	2546	3947	1827	3182	5193	2193	3819	6337	2558	3943
RT02-D02-30	4546	2105	3277	5683	2631	4097	6820	3157	4916	7956	3683	5734
RT02-D02-35	6188	2865	4488	7735	3581	5610	9282	4297	6732	10829	5014	7854
RT02-D03-35	7735	3581	5537	9669	4476	6921	11603	5372	8035	13537	6267	9689
RT02-D03-38	9118	4221	6557	11398	5277	8196	13677	6332	9835	15957	7387	11474
RT02-D03-43	11675	5405	8443	14594	6757	10553	17513	8108	12664	20432	9459	14774
RT02-D04-43	14502	6714	10411	18128	8392	13014	21753	10071	15617	25379	11749	18220
RT02-D04-48	18071	8366	13043	22528	10458	16304	27106	12549	19565	31642	14641	22825
RT02-D04-53	21360	10200	15752	27539	12750	19374	33093	15300	23946	38532	17513	27349
RT02-D05-53	27073	12534	19617	33841	15667	24521	40690	18800	29425	47377	21934	34329
RT02-D05-58	32422	15010	23651	40527	18762	29452	48632	22515	35342	56738	26267	41259
RT02-D05-63	38252	17790	27861	47815	22137	34827	57379	26564	41792	66942	30992	48754
RT02-D05-68	44565	20632	32517	55706	25790	40646	66848	30948	48775	77989	36106	56905
RT02-D06-68	56397	25897	40529	69221	32371	50661	83905	38845	60793	97880	45319	70925
RT02-D06-73	64465	29845	46188	80628	37306	58523	96698	44786	70227	112814	52229	81932
RT02-D06-80	77421	35843	56373	96777	44804	70466	116132	53765	84559	135487	62726	98652
RT02-D07-80	100294	47646	74114	127946	59804	92643	153141	70099	111717	170605	82715	129700
RT02-D07-90	129213	59348	91113	161516	74776	117642	193819	89731	141170	226123	104686	168496
RT02-D07-100	159252	73853	116465	199403	92316	145582	239283	110779	174698	279164	129242	203814
RT02-D08-100	210682	98470	154958	265870	123088	193697	319044	147706	262635	372123	172323	306429
RT02-D08-120	306282	141797	223974	382853	177247	279967	459423	212696	353961	535984	248145	391854



HEAVY DUTY PNEUMATIC ACTUATOR SINGLE ACTION TORQUE TABLE

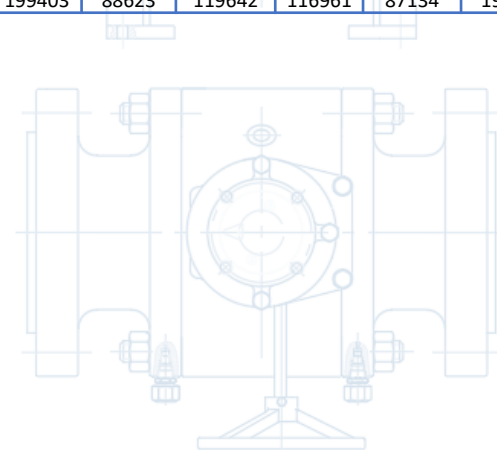
MODEL	4.0Bar 0°	4.0Bar R*	4.0Bar 90°	5.0Bar 0°	5.0Bar R*	5.0Bar 90°	6.0Bar 0°	6.0Bar R*	6.0Bar 90°	7.0Bar 0°	7.0Bar R*	7.0Bar 90°
RT01-S01-18 A	390	289	651	611	267	351	862	406	601	1112	545	852
RT01-S01-18 B	488	361	803	704	335	443	1075	504	713	1391	636	1102
RT01-S01-20 A	402	307	606	704	335	443	1075	504	713	1600	654	1377
RT01-S01-20 B	602	446	1004	955	419	553	1266	592	865	1578	765	1178
RT01-S01-25 A	753	525	1255	1216	536	714	1708	802	1092	2002	1036	1495
RT01-S01-25 B	941	697	1569	1519	670	892	2002	943	1384	2504	1217	1817
RT01-S02-25 A	987	731	1644	1559	683	901	2196	1037	1538	2832	1391	2174
RT01-S02-25 B	1233	914	2055	1948	857	1134	2538	1266	1802	3268	1744	2811
RT01-S02-30 A	1421	1052	2368	2283	1005	1335	3209	1519	2261	4133	2034	3187
RT01-S02-30 B	1776	1316	2960	2853	1256	1669	3779	1771	2595	4705	2285	3521
RT01-S02-35 A	1934	1432	3223	3138	1385	1849	4408	2089	3166	5747	2493	3846
RT01-S02-35 B	2417	1791	4029	3922	1731	2311	5190	2436	3579	6348	3140	4682
RT01-S03-35 A	2417	1791	4029	3839	1685	2228	5403	2547	3792	6968	3423	5366
RT01-S03-35 B	3022	2238	5036	4710	2062	2735	6968	3423	5366	8532	4292	6920
RT01-S03-38 A	2849	2111	4749	4560	2005	2660	6412	3034	4512	8824	4063	6364
RT01-S03-38 B	3562	2638	5936	5876	2579	3459	8279	3924	5880	10116	5092	8217
RT01-S03-43 A	3649	2703	6081	5891	2597	3459	8279	3924	5880	10146	5092	8217
RT01-S03-43 B	4561	3378	7601	7364	3247	4324	9749	4572	6709	12134	5897	9092
RT01-S04-43 A	4532	3357	7553	7233	3719	4212	10174	4713	7535	11094	5008	8081
RT01-S04-43 B	5665	4196	9441	9041	3746	5265	11982	5608	8206	14923	7242	11114
RT01-S04-48 A	5647	4183	9412	9092	4005	5327	12776	6052	9011	16461	8099	12696
RT01-S04-48 B	7059	5229	11765	11364	5006	6659	15109	7033	9933	19421	10347	16381
RT01-S04-53 A	6885	5100	11475	11154	4922	6565	15664	7477	9933	15584	12438	20094
RT01-S04-53 B	8606	6375	14343	13943	6152	8206	18453	8685	12716	22963	11163	17235
RT01-S05-53 A	8460	6267	14100	13707	6048	8067	19248	9108	12721	22963	11163	17235
RT01-S05-53 B	10575	7833	17625	17133	7560	10083	22675	10639	15165	28217	13718	21150
RT01-S05-58 A	10132	7505	16886	16493	7286	9738	23149	10984	15349	32641	18380	29759
RT01-S05-58 B	12665	9381	21108	20616	9136	12108	27272	13288	18829	39326	21585	35073
RT01-S05-63 A	11954	8855	19923	19530	8368	11560	27400	13941	35271	17332	23142	34716
RT01-S05-63 B	14942	11068	24904	24412	10351	13533	33238	15535	41193	25045	25407	43192
RT01-S05-68 A	13927	10316	23211	22817	10097	13353	30330	14150	41193	25045	25407	43192
RT01-S05-68 B	17408	12895	29014	28522	12672	16664	37276	17526	36102	36102	26658	35718
RT01-S06-68 A	17480	12984	29134	28317	12495	16855	35397	15618	20830	46846	21979	32279
RT01-S06-68 B	21850	16185	36417	35397	15618	20830	46846	21979	32279	58295	28340	43782

MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT01-S06-73 A	20145	14923	33576	32759	14469	19329	45985	21817	32555	59211	29165	45781
RT01-S06-73 B	25182	18653	41970	40949	18086	24161	54175	25434	37387	67401	32728	50613
RT01-S06-80 A	24194	17922	40324	39507	17468	23378	53585	25358	55228	87273	35523	71154
RT01-S06-80 B	30243	22402	50405	49834	21835	29222	65309	30628	45147	81283	39330	61073
RT01-S06-85 A	27313	20332	45252	44705	19778	26496	62710	29781	44501	80714	39783	62505
RT01-S06-85 B	34141	25290	56902	56028	25267	33122	73886	34785	62175	91809	49786	80038
RT01-S07-80 A	31904	23633	53174	51845	22894	30755	72782	34526	51512	93716	46158	72450
RT01-S07-80 B	39881	29541	66468	64806	28618	38219	85743	40250	59156	106680	51882	80903
RT01-S07-90 A	40379	29100	67298	65969	29172	39050	92556	43721	119143	85743	110760	118811
RT01-S07-90 B	50474	37388	84123	80261	34685	48812	109204	51235	75399	135365	66060	101984
RT01-S07-100 A	49851	36926	83084	81755	36188	48521	114656	54466	81423	147558	72745	113422
RT01-S07-100 B	62313	46158	103856	101145	44850	60674	157422	81233	114324	180459	91024	124544
RT01-S08-100 A	66468	49235	110779	108635	52140	72363	100898	106186	96683	151827	239981	121003
RT01-S08-100 B	83084	61544	138474	135793	60305	80404	179658	134731	124179	223344	108649	167385
RT01-S08-120 A	95713	70899	159522	157377	69707	93569	203245	156841	283923	134105	220114	347195
RT01-S08-120 B	119642	88623	199403	196722	87134	116961	259994	122285	183203	323267	157437	243506



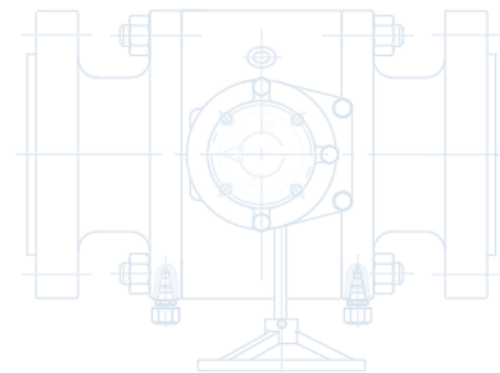
HEAVY DUTY PNEUMATIC ACTUATOR SINGLE ACTION TORQUE TABLE

MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°	MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT01-S01-18 A	651	289	390	351	267	611	601	406	862	852	545	1112	RT01-S06-68 A	29134	12948	17480	16664	12438	28113	18855	39763	25216	51216	31577	62625
RT01-S01-18 B	813	361	488	439	334	764	708	473	1014	1039	612	1268	RT01-S06-68 B	36417	16185	21850	20830	15618	35397	21979	46846	32279	58295	28340	43782
RT01-S01-20 A	803	357	482	443	335	764	505	508	1075	1058	654	1698	RT01-S06-73 A	33576	14923	20145	19329	14469	45985	21817	32555	59211	29165	45781	72438
RT01-S01-20 B	1004	446	602	553	419	955	865	592	1266	1176	765	1578	RT01-S06-73 B	41970	18653	25182	24161	18086	54175	25434	37387	67401	32728	50613	81234
RT01-S01-25 A	1255	558	753	714	536	1216	1028	700	1708	1608	819	2204	RT01-S06-80 A	40324	17922	24194	23378	17468	53585	25358	55228	87273	35523	71154	97583
RT01-S01-25 B	1569	697	941	892	670	1519	1384	943	2130	1876	1036	2692	RT01-S06-80 B	50405	22402	30243	29222	21835	65309	30628	45147	81283	39330	61073	102349
RT01-S02-25 A	1644	731	987	901	683	1559	1538	1037	2196	2174	1381	3468	RT01-S06-85 A	45252	20332	27313	26496	19778	62710	29781	44501	80714	39783	62505	98714
RT01-S02-25 B	2055	914	1233	1127	854	1949	1763	1208	2585	2400	1562	3222	RT01-S06-85 B	56902	25290	34141	33122	25267	73886	34785	62175	91809	49786	80038	114682
RT01-S02-30 A	2368	1052	1421	1335	1005	2283	2203	1337	3187	3087	1613	3521	RT01-S07-80 A	53174	23633	31904	30575	22894	72782	34526	51512	93716	46158	72450	114685
RT01-S02-30 B	2960	1316	1776	1669	1256	2853	2595	1771	3779	3521	2285	4705	RT01-S07-80 B	66468	29541	39881	38219	28618	85743	40250	59156	106680	51882	80903	118811
RT01-S02-35 A	3223	1432	1934	1849	1385	3138	3116	2089	4406	4384	2794	5674	RT01-S07-90 A	67298	29100	40379	39050	29172	92556	43721	119143	85743	110760	118811	135932
RT01-S02-35 B	4029	1791	2417	3116	2089	4406	4384	2794	5674	5652	3498	6941	RT01-S07-90 B	84123	37388	50474	48812	34685	109204	51235	75399	135365	66060	101984	149765
RT01-S03-35 A	4029	1791	2417	2228	1685	3839	3792	2554	5043	5356	3423	6968	RT01-S07-100 A	83084	36926	49851	48521	36188	114656	54466	81423	147558	72745	113422	158942
RT01-S03-35 B	5036	2238	3022	2785	2107	4799	4349	2976	6363	5913	3845	7927	RT01-S07-100 B	103856	46158	62313	60674	44850	157422	81233	114324	180459	91024	124544	167997
RT01-S03-38 A	4749	2111	2849	4560	2005	2660	6412	3034	4512	8364	4063	6364	RT01-S08-100 A	110779	49235	66468	64323	48404	108635	30350	124179	223344	108649	167385	209583
RT01-S03-38 B	5936	2638	3562	5876	2579	3459	8279	3924	5880	10146	5092	8217	RT01-S08-100 B	138474	61544	83084	80404	60305	179658	134731	124179	223344	108649	167385	275814
RT01-S03-43 A	6081	2703	3649	5891	2597	5891	8279	3924	5880	10146	5092	8217	RT01-S08-120 A	159522	70899	95713	93569	69707	156841	283923	220114	347195	175162	283386	362109
RT01-S03-43 B	7601	3378	4561	7364	3247	4324	9749	4572	6709	12134	5897	9092	RT01-S08-120 B	199403	88623	119642	116961	87134	196722	180233	122285	259994	243506	157437	315232
RT01-S04-43 A	7553	3357	4532	4212	3719	7233	7153	4813	10174	10447	5941	12134													
RT01-S04-43 B	9441	4196	5665	5265	3974	9041	8206	5608	11982	11147	7242	14923													
RT01-S04-48 A	9412	4183	5647	9092	4005	5327	12776	6052	9011	16461	10146	16381													
RT01-S04-48 B	11765	5229	7059	6659	5006	11364	10343	7035	15049	14098	9100	18734													
RT01-S04-53 A	11475	5100	6885	6565	4962	11154	15584	9933	20174	20094	12438	24694													
RT01-S04-53 B	14343	6375	8606	13943	6152	8206	18453	8685	12716	22963	11163	17235													
RT01-S05-53 A	14100	6267	8460	8067	6048	13707	19248	9108	12716	18453	7725	12983													
RT01-S05-53 B	17625	7833	10575	17133	7560	10083	22675	10639	15165	28217	13718	21150													
RT01-S05-58 A	16886	7505	10132	16493	7286	9738	23149	10984	15349	32641	18380	29759													
RT01-S05-58 B	21108	9381	12665	20616	9136	12108	27272	13288	18829	39326	21585	35073													
RT01-S05-63 A	19923	8855	11954	11560	8368	13863	27352	13941	35271	17332	23142	34716													
RT01-S05-63 B	24904	11068	14942	24412	10351	14450	32283	15168	32283	30192	19541	40154													
RT01-S05-68 A	23211	10316	13927	13533	10097	22817	30330	14150	41193	25045	25407	43192													
RT01-S05-68 B	29014	12895	17408	28522	12672	16664	37276	17526	36102	36102	26658	35718													



HEAVY DUTY PNEUMATIC ACTUATOR SINGLE ACTION TORQUE TABLE

MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°	MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT02-S01-18 A	562	401	691	687	178	195	999	322	417	1312	467	639	RT02-S06-68 A	25172	17946	30339	30765	7950	44750	14424	1972	58734	20899	29855	72718
RT02-S01-18 B	703	501	864	859	224	244	1171	366	466	1483	511	687	RT02-S06-68 B	31465	22433	38673	38457	9938	11984	34857	16412	31910	62425	32878	39987
RT02-S01-20 A	694	495	853	848	219	249	1234	398	525	1619	576	801	RT02-S06-73 A	29009	20683	35656	35462	9112	11163	51572	12687	6769	24085	34572	38368
RT02-S01-20 B	867	618	1066	1060	274	314	1514	485	587	1831	637	1013	RT02-S06-73 B	38226	25653	45947	44320	11453	13551	60443	15386	8208	27655	43678	55831
RT02-S01-25 A	1084	773	1333	1325	342	409	1928	621	845	2530	900	1280	RT02-S06-80 A	34840	24839	42822	42532	10924	13114	69129	18925	11453	76508	47886	55137
RT02-S01-25 B	1355	966	1606	1656	428	512	2259	707	947	2861	986	1383	RT02-S06-80 B	43550	31049	53527	53327	15769	22919	72583	22716	31032	91938	31678	45123
RT02-S02-25 A	1421	1013	1746	1746	375	507	2526	810	1070	3315	1180	1633	RT02-S06-85 A	39331	28041	43442	48701	12422	15391	67958	21973	29513	86572	35162	37767
RT02-S02-25 B	1776	1266	2183	2171	561	633	2960	926	1197	3749	1292	1760	RT02-S06-85 B	49163	35052	60427	60089	15375	19293	81933	25644	35172	10379	37650	51105
RT02-S02-30 A	2046	1459	2515	2501	646	763	3637	1152	1582	4774	1769	2201	RT02-S07-80 A	45942	32755	56448	56125	14511	17646	81765	26327	10719	134702	132772	42906
RT02-S02-30 B	2557	1823	3143	3126	808	952	4744	1334	1737	5399	1860	2592	RT02-S07-80 B	57428	40494	70585	70372	18384	21875	99915	33076	13451	132177	41777	60137
RT02-S02-35 A	2785	1985	3423	3403	880	1065	4951	1596	2187	6498	2312	3309	RT02-S07-90 A	58146	41456	71467	71087	18665	22646	103735	33083	12585	69773	60737	75837
RT02-S02-35 B	3481	2482	4278	4254	1099	1258	6188	1953	2643	8122	3075	3758	RT02-S07-90 B	72682	51820	89334	88834	22956	23808	121137	37911	15136	153440	52867	75384
RT02-S03-35 A	3481	2482	4278	4254	1099	1258	6188	1953	2643	8122	3075	3758	RT02-S07-100 A	81531	58110	88231	87773	22673	28234	134105	46910	18405	189432	65584	85692
RT02-S03-35 B	4351	3102	5348	5318	1374	1573	7252	2270	2957	9185	3165	4341	RT02-S07-100 B	89731	60975	110129	108324	32326	37316	150158	60405	18943	225707	85420	106271
RT02-S03-38 A	4103	2925	5043	5015	1296	1513	7294	2372	2977	11853	4426	5237	RT02-S08-100 A	95713	68240	117642	116398	46445	71017	192394	86548	35834	252577	106249	147260
RT02-S03-38 B	5129	3657	6304	6269	1632	1892	8548	2675	3521	10928	3731	5170	RT02-S08-100 B	119642	85300	140758	139626	58895	86485	233393	104950	64806	325837	125377	186235
RT02-S03-43 A	5254	3746	6458	6421	1659	1985	9340	3011	4096	12259	4362	6206	RT02-S08-120 A	137827	98266	169404	168455	54570	245026	179634	144304	166557	249850	225321	282541
RT02-S03-43 B	6567	4682	8072	8027	2074	2498	10488	3916	5642	15178	5713	8317	RT02-S08-120 B	172284	122383	211755	210569	75415	68213	287140	124206	363710	125313	180200	246820
RT02-S04-43 A	6526	4653	8021	7976	2061	2390	11602	3743	4933	15227	7586	8853													
RT02-S04-43 B	8157	5816	10026	9970	2576	3086	13596	4525	5805	17221	5933	8193													
RT02-S04-48 A	8132	5798	9995	9938	2568	3048	14457	5309	6812	19572	7548	10283													
RT02-S04-48 B	10165	7247	12494	12424	3210	3778	16941	5301	6700	21459	7393	12330													
RT02-S04-53 A	9914	7068	12117	11987	3131	3776	17925	5981	7525	23261	8843	12813													
RT02-S04-53 B	12393	8836	15232	15147	3914	4723	20654	7264	8164	26164	11281	14091													
RT02-S05-53 A	12183	8686	14974	14809	3848	4643	21658	6981	9574	28426	13134	19356													
RT02-S05-53 B	15228	10857	18717	18612	4861	6028	25045	10215	14451	31948	12438	19536													
RT02-S05-58 A	14590	10402	17932	17832	4708	5629	25937	8361	12113	41410	17140	33032													
RT02-S05-58 B	18237	13002	22415	22299	6704	9620	30395	10396	12927	35807	15866	30330													
RT02-S05-63 A	17214	12273	21157	21039	5457	6704	32068	9364	11408	39816	17488	31871													
RT02-S05-63 B	21517	15341	28447	28299	8786	11492	35338	11723	15336	45435	19551	38083													
RT02-S05-68 A	25054	14928	24649	24511	6334	7868	36525	11492	13693	47780	20376	39213													
RT02-S05-68 B	25068	17872	30811	30683	7918	13693	47780	20376	39213	52921	18234	26938													



HEAVY DUTY PNEUMATIC ACTUATOR

SINGLE ACTION

TORQUE TABLE



MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT02-S01-18 A	566	181	250	683	397	636	996	541	858	1308	686	1079
RT02-S01-18 B	707	227	317	854	468	795	1168	647	1017	1437	785	1263
RT02-S01-20 A	698	224	309	844	490	793	1229	609	1089	1645	807	1345
RT02-S01-20 B	873	280	386	1056	612	902	1440	701	1267	1828	960	1643
RT02-S01-25 A	1091	350	483	1318	766	1259	1921	1044	1528	2533	1310	1983
RT02-S01-25 B	1364	437	604	1648	957	1574	2250	1233	2130	3101	1515	2446
RT02-S02-25 A	1430	459	633	1727	1003	1620	2517	1369	2183	3306	1734	2747
RT02-S02-25 B	1787	579	731	2159	1254	2059	2948	1595	2598	3898	1985	3156
RT02-S02-30 A	2059	660	911	2487	1445	2366	3624	1971	3186	4761	2497	4005
RT02-S02-30 B	2574	825	1139	3109	1806	2958	4246	2332	3777	5382	2858	4597
RT02-S02-35 A	2803	999	1240	3386	1966	3248	4933	2682	4118	6309	3452	5482
RT02-S02-35 B	3503	1123	1550	4232	2458	3987	5779	3174	5182	7328	3890	6304
RT02-S03-35 A	3503	1123	1550	4232	2458	3987	6166	3353	5371	8033	5144	8139
RT02-S03-35 B	4379	1404	1936	5298	3087	6166	7224	3967	9157	9467	4753	11752
RT02-S03-38 A	4130	1324	1827	4988	2897	4729	7268	3925	6388	9547	5008	11827
RT02-S03-38 B	5162	1655	2284	6236	3621	5912	8515	4677	7551	10793	5732	9130
RT02-S03-43 A	5288	1666	2398	6388	3710	6103	9223	5101	8213	11322	7340	11580
RT02-S03-43 B	6610	2120	2925	7985	4637	7683	10903	5988	9739	13822	9730	13820
RT02-S04-43 A	6580	2106	2931	7934	4808	7505	9918	5768	9186	13543	7438	11984
RT02-S04-43 B	8210	2633	3633	9886	5742	9422	14404	7833	12682	18922	9925	15943
RT02-S04-48 A	8184	2624	3621	9886	5742	9422	14404	7833	12682	18922	9925	15943
RT02-S04-48 B	9978	3200	4475	12053	7000	11549	17561	9550	15540	23973	11591	28577
RT02-S05-53 A	12261	4000	5519	14191	8602	14191	20575	11300	18427	30895	16185	24420
RT02-S05-53 B	15326	4915	6782	18154	10775	17739	25822	13836	22641	30511	16190	27548
RT02-S05-58 A	14684	4709	6497	17738	10301	17064	25843	14054	23955	33039	17632	25395
RT02-S05-58 B	18035	5888	7860	21760	12691	21504	31025	17073	28005	41572	21236	34528
RT02-S05-63 A	17324	5565	7525	20196	10491	19165	30491	15621	27073	39241	20767	32402
RT02-S05-63 B	21665	6944	9828	26160	13630	25160	39220	24137	34127	53692	31097	47974
RT02-S05-68 A	23586	8331	11363	24382	14106	26183	36664	23825	39845	50786	26076	45741
RT02-S05-68 B	25229	8090	11163	30477	17700	29483	41618	22858	37162	52760	28106	47974

HEAVY DUTY PNEUMATIC ACTUATOR

SINGLE ACTION

TORQUE TABLE

MODEL	4.0Bar 0°	4.0Bar R°	4.0Bar 90°	5.0Bar 0°	5.0Bar R°	5.0Bar 90°	6.0Bar 0°	6.0Bar R°	6.0Bar 90°	7.0Bar 0°	7.0Bar R°	7.0Bar 90°
RT02-S06-68 A	25334	8124	11210	30603	17773	29319	44587	24247	39451	72556	37196	59716
RT02-S06-68 B	31667	10155	14012	38254	22216	34694	55238	28690	46781	82622	31561	69383
RT02-S06-73 A	29196	9362	12919	35269	20483	33900	51385	27004	45060	57309	38186	42867
RT02-S06-73 B	36495	11703	16148	44086	25004	42374	65034	33065	54079	76319	40526	65784
RT02-S06-80 A	35004	11244	15115	42357	24959	40858	61713	35046	51072	91657	48087	79237
RT02-S06-80 B	43830	14055	19394	52947	30730	51072	72302	39710	66155	91657	48087	79237
RT02-S06-85 A	39584	12693	17155	47817	27770	46218	69668	37886	62111	91518	41389	94017
RT02-S06-85 B	49480	15867	21849	59772	34797	57217	80802	45580	78034	113369	58118	94017
RT02-S07-80 A	46238	14827	20495	55856	32439	53655	81937	41325	72183	103479	67888	94017
RT02-S07-80 B	57798	18534	25741	69819	40358	68219	96353	52365	85597	120807	64181	104814
RT02-S07-90 A	58201	18766	26282	70693	41055	68219	96353	52365	85597	120807	64181	104814
RT02-S07-90 B	73160	23467	33627	88368	61376	82262	120684	72704	108803	162072	123331	134881
RT02-S07-100 A	72247	23167	33216	87275	60865	84497	116419	75637	106284	188434	100263	163843
RT02-S07-100 B	90340	28959	39960	109648	76119	141911	148749	81260	137480	275888	141433	228857
RT02-S08-100 A	96330	30980	42624	116366	67851	112334	169054	96120	151072	222714	116818	218599
RT02-S08-100 B	121012	38612	53286	145458	88412	144544	198683	127503	179157	397729	230634	308381
RT02-S08-120 A	138715	44481	61378	167568	97316	162596	209458	121645	203245	286030	150704	259238
RT02-S08-120 B	173394	55602	76723	209459	121645	203245	286030	150704	259238	362001	192544	315232

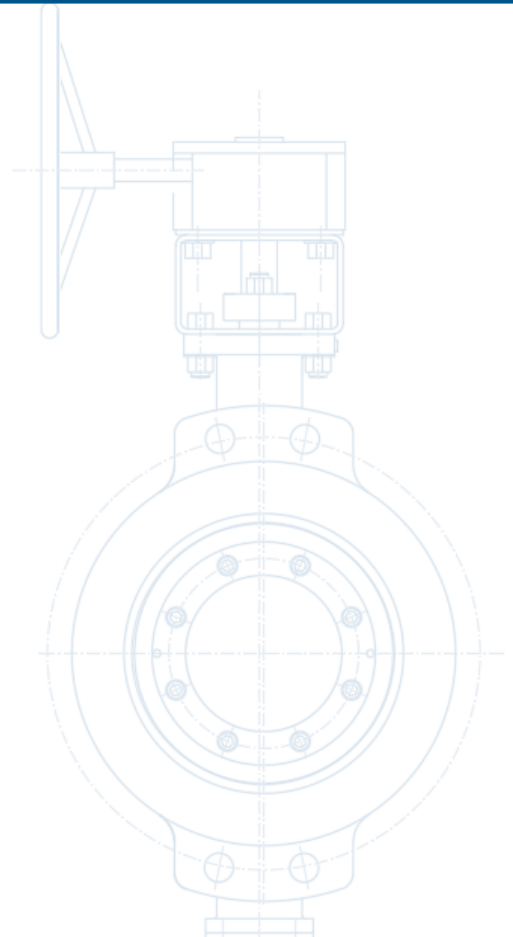
HEAVY DUTY PNEUMATIC ACTUATOR

AIR CONSUMPTION

Size	Volume opening	Volume closing	Size	Volume opening	Volume closing
RT01/RT02-S01-18	3.12	3.25	RT01/RT02-D01-18	3.3	3.1
RT01/RT02-S01-20	3.88	4.01	RT01/RT02-D01-20	4.1	3.7
RT01/RT02-S01-25	6.15	6.26	RT01/RT02-D01-25	6.35	6.1
RT01/RT02-S02-25	8.4	8.7	RT01/RT02-D02-25	8.8	8.4
RT01/RT02-S02-30	12.2	12.5	RT01/RT02-D02-30	12.9	12.1
RT01/RT02-S02-35	16.7	17	RT01/RT02-D02-35	17.6	16.5
RT01/RT02-S03-35	20	20.6	RT01/RT02-D03-35	21.4	20.3
RT01/RT02-S03-38	23.7	24.3	RT01/RT02-D03-38	25.3	23.9
RT01/RT02-S03-43	30.6	31.2	RT01/RT02-D03-43	32.6	30.6
RT01/RT02-S04-43	38.8	40	RT01/RT02-D04-43	42.4	38.8
RT01/RT02-S04-48	48.6	49.7	RT01/RT02-D04-48	53.1	48.4
RT01/RT02-S04-53	59.5	60.6	RT01/RT02-D04-53	65	59.1
RT01/RT02-S05-53	72.6	74.3	RT01/RT02-D05-53	79.7	71.9
RT01/RT02-S05-58	87.3	89	RT01/RT02-D05-58	95.8	86.2
RT01/RT02-S05-63	103.3	105	RT01/RT02-D05-63	113.4	101.6
RT01/RT02-S05-68	115	115.8	RT01/RT02-D05-68	120	113
RT01/RT02-S06-68	149	151	RT01/RT02-D06-68	164	145
RT01/RT02-S06-73	172	175	RT01/RT02-D06-73	189	167
RT01/RT02-S06-80	199	201	RT01/RT02-D06-80	216	195
RT01/RT02-S06-85	225	227	RT01/RT02-D06-85	242	220
RT01/RT02-S07-80	276	280	RT01/RT02-D07-80	301	268
RT01/RT02-S07-90	332	335	RT01/RT02-D07-90	355	327
RT01/RT02-S07-100	410	445	RT01/RT02-D07-100	466	405
RT01/RT02-S08-100	577	584	RT01/RT02-D08-100	624	557
RT01/RT02-S08-120	790	796	RT01/RT02-D08-120	818	783

HEAVY DUTY PNEUMATIC ACTUATOR

WEIGHT TABLE

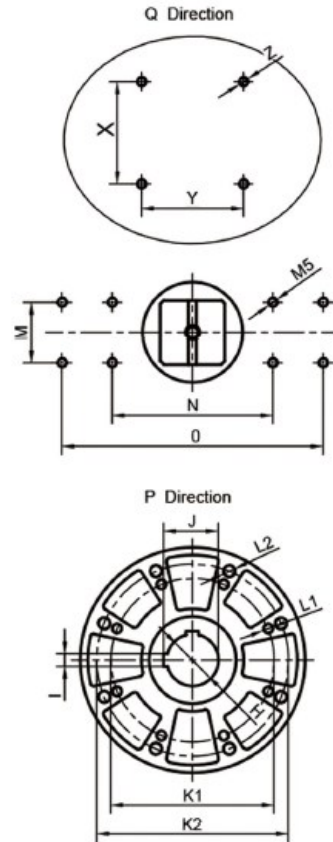
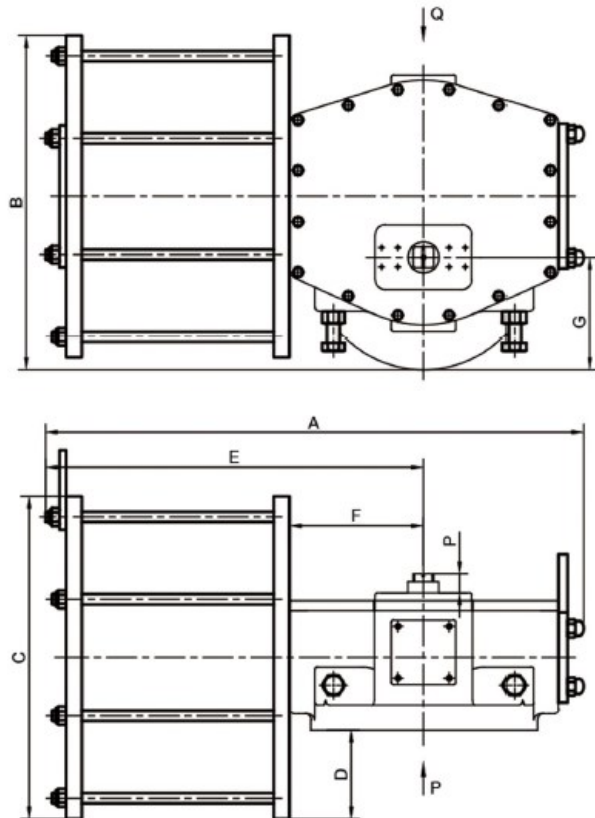


Model (Single action)	Weight (kg)	Model (Single action)	Weight (kg)
RT01/RT02-S01-18	68	RT01/RT02-D01-18	38
RT01/RT02-S01-20	76	RT01/RT02-D01-20	42
RT01/RT02-S01-25	85	RT01/RT02-D01-25	45
RT01/RT02-S02-25	102	RT01/RT02-D02-25	53
RT01/RT02-S02-30	140	RT01/RT02-D02-30	61
RT01/RT02-S02-35	190	RT01/RT02-D02-35	205
RT01/RT02-S03-35	281	RT01/RT02-D03-35	210
RT01/RT02-S03-38	340	RT01/RT02-D03-38	235
RT01/RT02-S03-43	380	RT01/RT02-D03-43	260
RT01/RT02-S04-43	490	RT01/RT02-D04-43	355
RT01/RT02-S04-48	550	RT01/RT02-D04-48	375
RT01/RT02-S04-53	640	RT01/RT02-D04-53	389
RT01/RT02-S05-53	950	RT01/RT02-D05-53	600
RT01/RT02-S05-58	1100	RT01/RT02-D05-58	640
RT01/RT02-S05-63	1304	RT01/RT02-D05-63	680
RT01/RT02-S05-68	1550	RT01/RT02-D05-68	850
RT01/RT02-S06-68	1900	RT01/RT02-D06-68	1030
RT01/RT02-S06-73	1850	RT01/RT02-D06-73	1090
RT01/RT02-S06-80	2000	RT01/RT02-D06-80	1200
RT01/RT02-S06-85	2300	RT01/RT02-D06-85	1360
RT01/RT02-S07-80	2700	RT01/RT02-D07-80	1650
RT01/RT02-S07-90	3100	RT01/RT02-D07-90	1800
RT01/RT02-S07-100	3500	RT01/RT02-D07-100	2100
RT01/RT02-S08-100	4200	RT01/RT02-D08-100	2450
RT01/RT02-S08-120	6800	RT01/RT02-D08-120	5200

HEAVY DUTY PNEUMATIC ACTUATOR

DOUBLE ACTION

DIMENSION TABLE

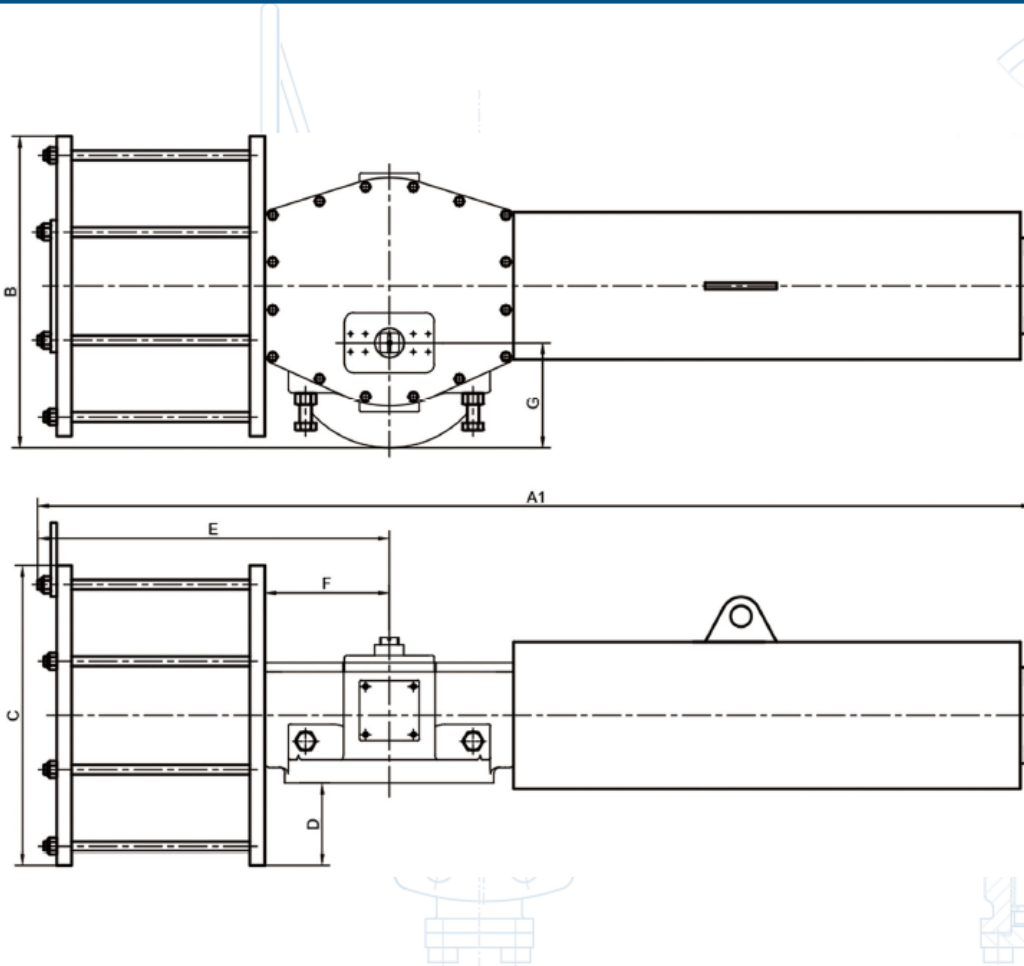


Model	A	A1 (4.0 Bar)	A1 (5.0 Bar)	B	C	D	E	F	G	H	I	J
RT01/02-D/S01-18	564	884	909	243.5	ø196	11	407	127	87.5	ø40	12	43.3
RT01/02-D/S01-20	564	930	945	252.5	ø214	20	407	127	87.5	ø40	12	43.3
RT01/02-D/S01-25	564	970	995	275	ø266	35	407	127	105	ø50	14	53.8
RT01/02-D/S02-25	727	1259	1289	314	ø266	35	517	175	105	ø50	14	53.8
RT01/02-D/S02-30	736	1328	1339	341	ø320	62	526	175	105	ø50	14	53.8
RT01/02-D/S02-35	727	1361	1376	391	ø420	112	517	175	105	ø50	14	53.8
RT01/02-D/S03-35	832	1535	1545	480	ø420	97	588	208	175	ø80	20	84.9
RT01/02-D/S03-38	832	1557	1616	495	ø450	112	588	208	175	ø80	20	84.9
RT01/02-D/S03-43	832	1601	1663	520	ø500	137	588	208	175	ø80	20	84.9
RT01/02-D/S04-43	1050	1902	1924	580.5	ø510	98	740	265	207.5	ø90	25	95.4
RT01/02-D/S04-48	1050	1952	2074	605.5	ø560	123	740	265	207.5	ø90	25	95.4
RT01/02-D/S04-53	1050	1999	2094	687.5	ø610	148	740	265	207.5	ø90	25	95.4
RT01/02-D/S05-53	1360	2348	2383	687.5	ø610	141	985	330	237.5	ø120	32	127.4
RT01/02-D/S05-58	1360	2383	2439	722.5	ø680	176	985	330	237.5	ø120	32	127.4
RT01/02-D/S05-63	1360	2597	2691	752.5	ø740	206	985	330	237.5	ø120	32	127.4
RT01/02-D/S05-68	1360	2617	2705	777.5	ø790	231	985	330	237.5	ø120	32	127.4
RT01/02-D/S06-68	1594	3085	3113	814.5	ø790	185	1127	415	237.5	ø150	36	158.4
RT01/02-D/S06-73	1594	3147	3225	839.5	ø840	210	1127	415	237.5	ø150	36	158.4
RT01/02-D/S06-80	1594	3247	3291	884.5	ø930	255	1127	415	237.5	ø150	36	158.4
RT01/02-D/S06-85	1637	3317	3372	864.5	ø890	235	1170	415	237.5	ø150	36	158.4
RT01/02-D/S07-80	1965	3955	4035	948	ø856	199	1410	500	280	ø190	45	200.4
RT01/02-D/S07-90	1965	4050	4146	978	ø946	244	1410	500	280	ø190	45	200.4
RT01/02-D/S07-100	1965	4180	4306	1046	ø1046	294	1410	500	280	ø190	45	200.4
RT01/02-D/S08-100	2310	4880	4990	1186	ø1046	240	1620	630	343	ø250	56	262.4
RT01/02-D/S08-120	2310	5090	5210	1288	ø1250	342	1620	630	343	ø250	56	262.4

HEAVY DUTY PNEUMATIC ACTUATOR

SINGLE ACTION

DIMENSION TABLE



K1	K2	L1	L2	M	N	O	P	X	Y	Z	Air Connection
ø140		4-M16		30	80		20	40	40	4-M6	Rc 3/8"
ø140		4-M16		30	80		20	40	40	4-M6	Rc 3/8"
ø140		4-M16		30	80		20	40	40	4-M6	Rc 3/8"
ø165		4-M20		30	80	130	30	80	80	4-M8	Rc 3/8"
ø165		4-M20		30	80	130	30	80	80	4-M8	Rc 3/8"
ø165		4-M20		30	80	130	30	80	80	4-M8	Rc 1/2"
ø254	ø298	8-M16	8-M20	30	80	130	30	80	80	4-M8	Rc 3/4"
ø254	ø298	8-M16	8-M20	30	80	130	30	80	80	4-M8	Rc 3/4"
ø254	ø298	8-M16	8-M20	30	80	130	30	80	80	4-M8	Rc 3/4"
ø298	ø356	8-M20	8-M30	30	80	130	30	100	100	4-M10	Rc 1"
ø298	ø356	8-M20	8-M30	30	80	130	30	100	100	4-M10	Rc 1"
ø298	ø356	8-M20	8-M30	30	80	130	30	100	100	4-M10	Rc 1"
ø356	ø406	8-M30	8-M36	30	80	130	30	100	100	4-M12	Rc 1"
ø356	ø406	8-M30	8-M36	30	80	130	30	100	100	4-M12	Rc 1"
ø356	ø406	8-M30	8-M36	30	80	130	30	100	100	4-M12	Rc 1"
ø356	ø406	8-M30	8-M36	30	80	130	30	100	100	4-M12	Rc 1"
ø406		8-M36		30	80	130	30	160	160	4-M12	Rc 1"
ø406		8-M36		30	80	130	30	160	160	4-M12	Rc 1"
ø406		8-M36		30	80	130	30	160	160	4-M12	Rc 1"
ø406		8-M36		30	80	130	30	160	160	4-M12	Rc 1"
ø406	ø483	8-M36	12-M36	30	80	130	30	180	180	4-M16	Rc 1-1/2"
ø406	ø483	8-M36	12-M36	30	80	130	30	180	180	4-M16	Rc 1-1/2"
ø406	ø483	8-M36	12-M36	30	80	130	30	180	180	4-M16	Rc 1-1/2"
ø483	ø603	12-M36	20-M36	30	80	130	30	200	200	4-M16	Rc 1-1/2"
ø483	ø603	12-M36	20-M36	30	80	130	30	200	200	4-M16	Rc 1-1/2"

LIGHT PNEUMATIC ACTUATOR

DOUBLE ACTION

TORQUE TABLE

Model	2 Bar	2.5 Bar	3 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
DA-52	8.1	10.1	12.1	16.1	18.1	20	22	24	28	32
DA-63	15	18	22	29	33	35	40	43	50	58
DA-75	20.1	25	30	40	45	50	55	60	70	80
DA-83	30.8	39	47	63	70	78	86	94	110	125
DA-92	45	58	68	90	102	114	124	138	158	180
DA-105	66	85	99	132	149	158	174	192	231	264
DA-125	100	125	150.1	200	226	250	275	301	351	401
DA-140	171	214	256	342	379	407	450	513	598	684
DA-160	312	392	472	638	713	757	831	934	1064	1194
DA-190	426	532	638	852	954	1032	1170	1277	1490	1702
DA-210	530	665	798	1064	1197	1303	1432	1596	1820	2128
DA-240	769	946	1204	1539	1731	1924	2116	2358	2573	2986
DA-270	1147	1462	1785	2339	2632	2930	3235	3590	4094	4674
DA-300	1526	1908	2298	3052	3345	3641	3917	4578	5341	6104
DA-350	2285	2856	3450	4570	5141	5720	6285	6845	7997	9132
DA-400	3256	4069	4883	6511	7325	8139	8953	9767	11394	13022