



Kompact IV Actuator Series

Unique Design, Four Piston, Rack & Pinion Actuators



**A Compact Actuator
Designed for
Applications Where
Space & Weight Are of
Major Concern.**



Design Features:

- Bidirectional stroke adjustment
- Internally anodized body for corrosion resistance
- Externally anodized with powder polyester painted
- Spring return covers with extended screws for safe release
- ISO 5211 bottom flange for valve automation
- NAMUR output drive for installation of limit switches and positioners
- Available in Spring Return and Double Acting models
- NAMUR interface for mounting of solenoid valve

Kompact Advantage:

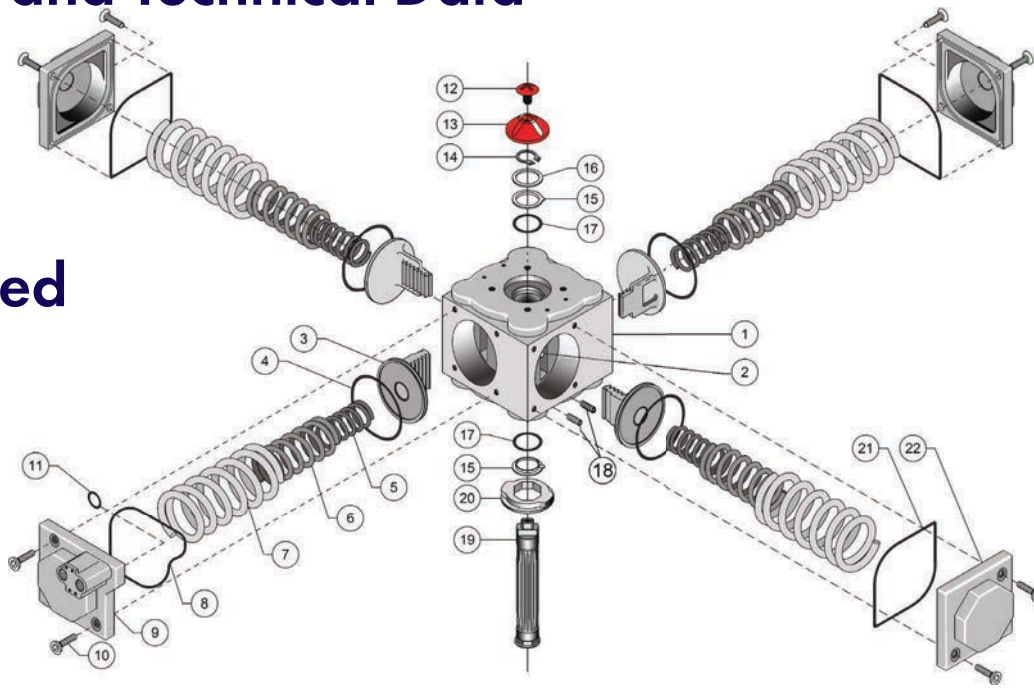
The Kompact quarter-turn rack & pinion actuator is a four piston actuator which generates torque around a centrally located pinion, giving more than double the torque of single or double rack & pinion actuator designs. The increased number of pistons allows their diameter to be reduced while maintaining its high torque, allowing the reduced size of the actuator.

Fast Acting Travel!

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Design and Technical Data

Exploded View



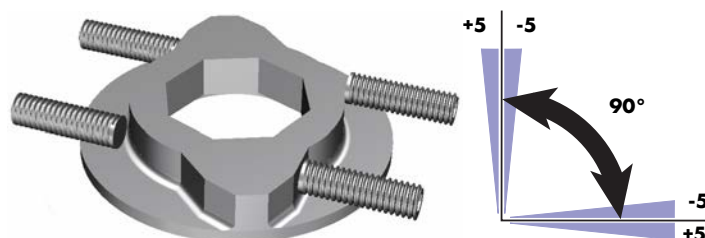
Bill of Material

Item	Description	Specifications
1	Body	AL 356 - T6
2	Pad	DELIN (Plastic)
3	Piston	AL 356
4	Piston O-Ring	Buna "N" / Viton
5	Inner Spring	Spring Steel
6	Middle Spring	Spring Steel
7	Outer Spring	Spring Steel
8	NAMUR Cover O-Ring	Buna "N" / Viton
9	NAMUR Cover	AL 356
10	Cover Screw	Stainless Steel
11	Air Supply O-Ring	Buna "N" / Viton

Item	Description	Specification
12	Indicator Screw	Stainless Steel
13	Indicator	ABS (Plastic)
14	Snap Ring	Stainless Steel
15	Thrust Washer	DELIN (Plastic)
16	Bearing	DELIN (Plastic)
17	Pinion O-Ring	Buna "N" / Viton
18	Stroke Adjustment Screw	Stainless Steel
19	Pinion	Nickel Coated Carbon Steel
20	Stroke Adjustment Stop	Stainless Steel
21	Cover O-Ring	Buna "N" / Viton
22	Spring Return Cover	K15-K35: AL 356 K45-K75: AL 380

Bidirectional Stroke Adjustment

Kompact actuators feature bidirectional pinion travel stops. These stops allow for true $\pm 5^\circ$ for valve travel adjustment to ensure precise positioning in all flow control services. The Kompact travel stops are designed to absorb the maximum rated torque of the actuator and the maximum impact loads associated with the recommended stroke speed.



Air Connection

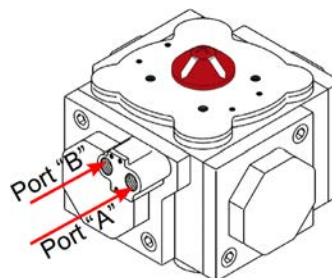
The actuator air connections are $\frac{1}{4}$ " NPT located on a NAMUR manifold and are marked A & B.

Sizes K15 to K45 - air connections are horizontal:

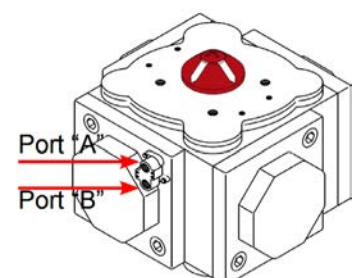
Port A is to the right and Port B to the left.

Sizes K60 to K75 - air connections are vertical:

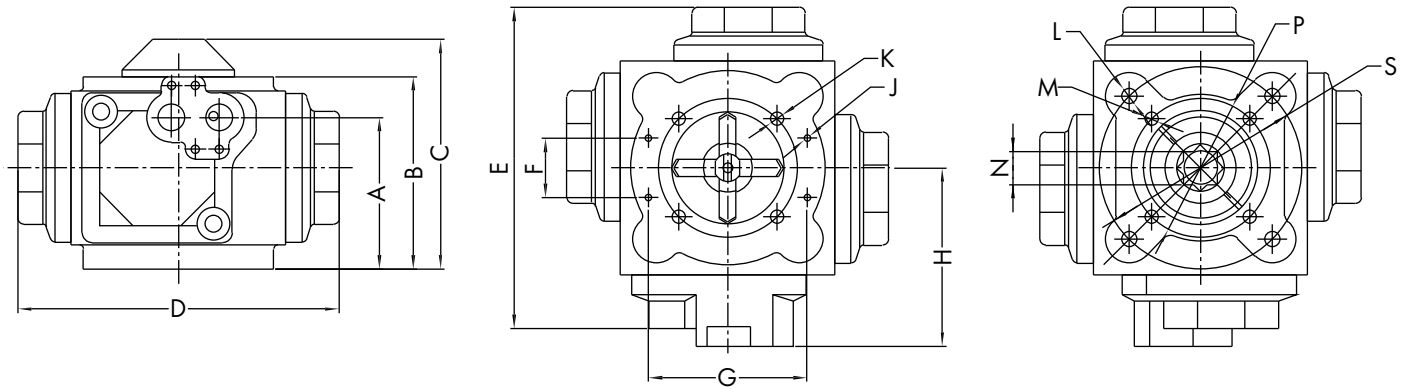
Port A is above Port B.



K15 to K45



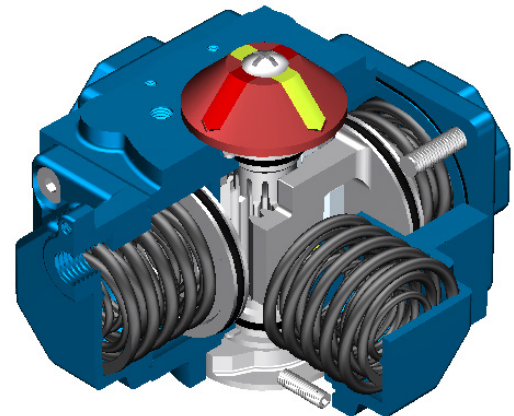
K60 to K75



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	ISO	S	ISO	Weight, lbs
K15	2.05	2.76	3.54	4.45	4.45	1.18	3.15	2.62	M5	1/4-20	5/16-18	1/4-20	0.35	1.97	F05	2.76	F07	2
K20	2.45	3.17	3.96	5.16	5.16	1.18	3.15	3.04	M5	1/4-20	5/16-18	1/4-20	0.43	1.97	F05	2.76	F07	4
K25	3.01	3.83	4.61	6.38	6.38	1.18	3.15	3.54	M5	5/16-18	3/8-16	5/16-18	0.55	2.76	F07	4.02	F10	8
K30	3.69	4.59	5.38	7.36	7.36	1.18	3.15	4.13	M5	5/16-18	3/8-16	5/16-18	0.67	2.76	F07	4.02	F10	11
K35	4.09	5.34	6.13	8.78	8.78	1.18	3.15	4.76	M5	3/8-16	3/8-16		0.87			4.02	F10	20
K45	5.04	6.46	7.24	10.75	10.75	1.18	3.15	5.67	M5	1/2-13	1/2-13		1.06			4.92	F12	33
K60	6.57	8.54	9.72	14.29	14.29	1.18	5.12	7.15	M5	5/8-11	5/8-11		1.42			5.51	F14	77
K75	8.24	10.51	11.69	17.09	17.09	1.18	5.12	8.54	M5	5/8-11	5/8-11		1.42			6.50	F16	141

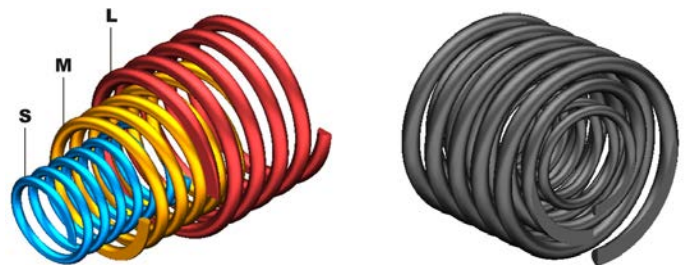
Modular Design Housing

Both spring return and double acting models use the same housing. Either unit can be easily converted by adding or removing springs. Our spring cartridges provide for complete safety of handling.



Spring Combinations

Spring arrangements for each end of actuator to assure balanced loading.



S4	M4	S2M4	S4M4	S4M2L2	S4L4	S4M4L2	M4L4	S2M4L4	S4M4L4

STROKE AIR SUPPLY		43 PSIG		60 PSIG		70 PSIG		80 PSIG		90 PSIG		100 PSIG		120 PSIG		SPRING STROKE	
MODEL	CODE	AIR START	AIR END	AIR START	AIR END	AIR START	AIR END	AIR START	AIR END	AIR START	AIR END	AIR START	AIR END	AIR START	AIR END	SPRING START	SPRING END
SR-K15	S4	62	35	89	62	115	97	133	106	150	124	177	150	212	186	53	27
	M4	-	-	71	35	106	71	115	89	133	97	159	124	195	159	80	44
Standard →	S2M4	-	-	-	-	89	44	106	62	115	80	142	98	177	133	106	62
	S4M4	-	-	-	-	-	-	-	-	97	53	124	75	159	106	133	80
SR-K20	S2M4	89	44	150	106	212	159	239	195	266	221	327	274	381	327	106	62
	S4M4	-	-	142	89	195	142	230	168	257	195	310	257	363	310	133	80
	S4M2L2	-	-	124	62	177	115	212	142	239	168	292	230	345	283	159	97
	S4L4	-	-	-	-	159	89	195	115	221	150	274	204	336	257	186	115
	S4M4L2	-	-	-	-	150	80	177	106	204	133	266	195	319	248	195	133
Standard →	M4L4	-	-	-	-	-	-	168	89	195	115	248	168	310	221	221	142
	S2M4L4	-	-	-	-	-	-	-	-	186	98	239	150	292	204	239	150
	S4M4L4	-	-	-	-	-	-	-	-	168	80	212	133	266	186	257	168
SR-K25	S2M4	221	133	336	239	451	354	513	416	575	469	690	584	797	690	204	115
	S4M4	204	97	319	204	434	319	487	372	549	434	664	549	779	655	248	142
	S4M2L2	-	-	292	168	407	283	469	345	531	398	646	513	761	620	283	159
	S4L4	-	-	-	-	381	239	443	301	504	363	620	469	735	584	319	186
	S4M4L2	-	-	-	-	363	195	416	258	478	301	593	425	708	540	372	212
Standard →	M4L4	-	-	-	-	336	159	398	212	460	274	566	389	682	496	416	239
	S2M4L4	-	-	-	-	-	-	381	168	443	221	558	336	664	443	460	257
	S4M4L4	-	-	-	-	-	-	-	-	416	186	531	301	646	407	504	274
SR-K30	S2M4	354	230	549	416	743	620	850	717	947	814	1151	1009	1345	1204	310	186
	S4M4	319	168	504	354	708	549	805	646	903	744	1106	947	1310	1142	372	230
	S4M2L2	-	-	460	266	664	460	761	558	867	655	1062	850	1266	1044	469	274
	S4L4	-	-	425	159	620	381	717	478	823	575	1018	770	1221	965	549	319
	S4M4L2	-	-	-	-	564	310	687	416	788	513	982	708	1186	912	611	354
Standard →	M4L4	-	-	-	-	547	214	651	345	752	443	947	637	1151	832	690	389
	S2M4L4	-	-	-	-	-	-	-	-	708	354	903	549	1106	754	779	434
	S4M4L4	-	-	-	-	-	-	-	-	664	292	867	487	1062	682	850	478
SR-K35	S2M4	717	443	1044	761	1381	1089	1540	1248	1699	1398	2036	1726	2372	2053	549	283
	S4M4	664	345	982	655	1328	991	1487	1142	1487	1301	1983	1629	2319	1956	655	336
	S4M2L2	556	230	885	549	1230	876	1390	1036	1549	1186	1885	1514	2222	1841	770	434
	S4L4	-	-	-	389	1151	726	1310	876	1469	1036	1806	1363	2142	1691	929	513
	S4M4L2	-	-	-	-	1089	593	1248	744	1407	903	1744	1231	2080	1558	1071	575
Standard →	M4L4	-	-	-	-	-	-	1177	602	1337	761	1673	1089	2009	1416	1213	646
	S2M4L4	-	-	-	-	-	-	-	-	1266	664	1602	991	1938	1319	1319	726
	S4M4L4	-	-	-	-	-	-	-	-	1195	558	1531	885	1868	1213	1425	788
SR-K45	S2M4	1310	761	1965	1398	2611	2027	2930	2337	3248	2655	3894	3284	4540	3912	1177	637
	S4M4	1186	531	1841	1168	2478	1797	2806	2115	3124	2434	3770	3062	4417	3691	1407	761
	S4M2L2	-	-	1744	1000	2381	1629	2708	1938	3027	2257	3673	2885	4319	3514	1584	859
	S4L4	-	-	1584	726	2230	1354	2549	1664	2877	1983	3523	2611	4169	3239	1876	1018
	S4M4L2	-	-	-	-	2107	1124	2425	1443	2753	1752	3390	2381	4036	3009	2115	1151
Standard →	M4L4	-	-	-	-	1974	903	2301	1213	2620	1531	3266	2160	3912	2788	2345	1275
	S2M4L4	-	-	-	-	-	-	-	-	2505	1301	3142	1930	3788	2558	2584	1398
	S4M4L4	-	-	-	-	-	-	-	-	2372	1080	3018	1708	3664	2337	2815	1531
SR-K60	S2M4	2832	1637	4266	3116	5682	4514	6399	5399	7302	6125	8877	7744	-	-	2328	1381
	S4M4	2531	1151	3965	2531	5390	4018	6116	4580	7010	5620	8585	7205	-	-	2770	1620
	S4M2L2	-	-	3824	2239	6098	3647	5930	4487	6771	5213	8373	6868	-	-	3222	1788
	S4L4	-	-	3638	1708	4965	3116	5691	3868	6399	4629	7966	6178	-	-	3744	2151
	S4M4L2	-	-	-	-	4788	3523	5576	4266	6231	4293	7833	5726	-	-	4257	2434
Standard →	M4L4	-	-	-	-	4602	2319	5434	2938	6125	3647	7682	5204	-	-	4735	2735
	S2M4L4	-	-	-	-	-	-	-	-	5850	3133	7364	4673	-	-	5328	3027
	S4M4L4	-	-	-	-	-	-	-	-	5594	2629	7116	4169	-	-	5930	3284
SR-K75	S2M4	5328	3319	7948	5682	10577	7975	11878	9205	13294	10462	15799	12763	-	-	4700	2593
	S4M4	5063	2540	7532	4974	10108	7435	11435	9037	12674	9754	15312	12170	-	-	5682	3151
	S4M2L2	-	-	7169	4434	9913	6824	10886	7904	12320	9099	14887	12320	-	-	6284	3594
	S4L4	-	-	6656	3558	9444	5859	10462	6992	11869	8240	14453	10630	-	-	7444	4116
	S4M4L2	-	-	-	-	8709	5142	10196	6302	11515	7435	14099	10196	-	-	8337	4709
Standard →	M4L4	-	-	-	-	8435	4372	9993	5488	11356	6904	13922	9329	-	-	9187	5072
	S2M4L4	-	-	-	-	-	-	9223	4841	10462	6063	13214	8514	-	-	10285	5673
	S4M4L4	-	-	-	-	-	-	-	-	9939	6125	12568	7718	-	-	11276	6284

Double Acting Output Torque (IN-LB)

Model	Air Supply Pressure PSIG						
	43	60	70	80	90	100	120
DA-K15	89	124	150	168	186	212	239
DA-K20	159	221	283	310	336	398	451
DA-K25	345	460	575	637	699	814	929
DA-K30	549	743	947	1053	1151	1354	1558
DA-K35	1009	1337	1682	1841	2000	2345	2691
DA-K45	1965	2629	3284	3611	3939	4594	5249
DA-K60	4231	5726	7275	8028	8532	10054	11488
DA-K75	8072	10824	13692	15153	16595	19401	22171



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Due to continuous development & improvement of our product range, we reserve the right to alter the dimensions and technical data included in this brochure.

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