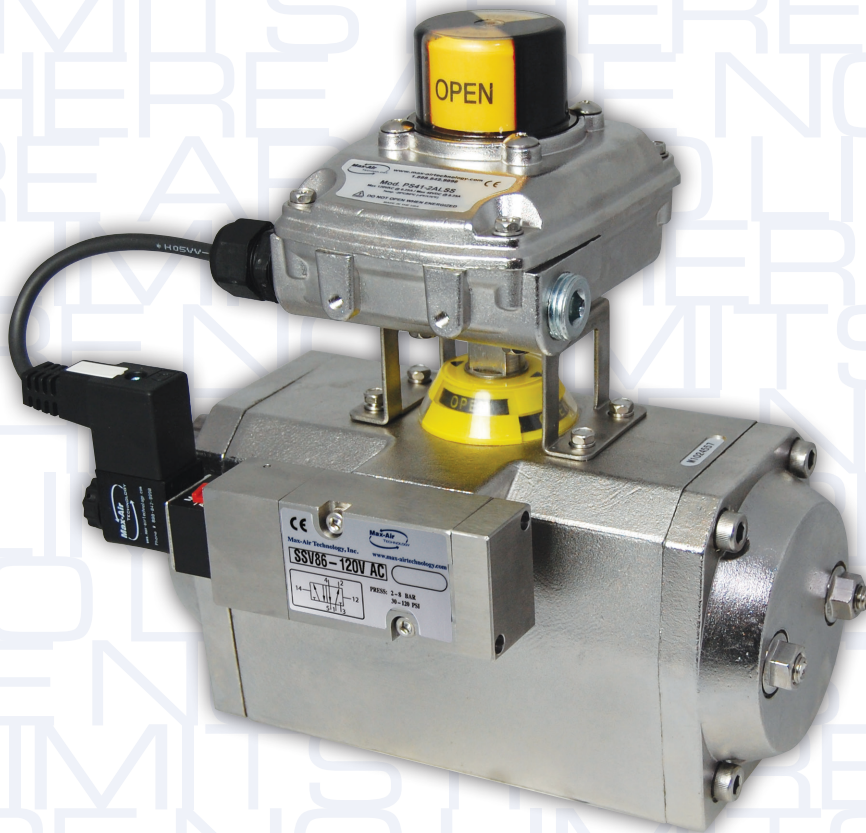


MAX-AIR STAINLESS STEEL ACTUATORS



SS SERIES ACTUATORS

Max-Air
TECHNOLOGY

FEATURES

COMPACT DESIGN

The MAX-AIR stainless steel rack & pinion pneumatic actuator produces linear torque output in a compact design utilizing the same body and end caps for double acting and spring return units.

NAMUR MOUNTING

NAMUR VDI/VDE 3845 and ISO 5211 dimensions on all sizes. No special blocks are required to mount solenoid valves, limit switches or positioners.

DEGREE OF TRAVEL

The standard angle of rotation is 90°. For sizes from SS16 and larger, Max-Air features dual travel stops that provide for $\pm 10^\circ$ stroke rotation on both the opening and closing phases of the actuator stroke. 110° of travel in a standard 90° actuator!

MULTIPLE OUTPUT SHAFTS

The female pinion drive is standard with a double square output drive, and optional with a double-D drive, keyed drive and designs to meet your specific requirements.

HIGH CYCLE BEARINGS

Shaft bearings isolate the pinion gear from the housing and support the shaft for high cycle applications. Many competitive manufacturers do not provide this critical feature.

RUGGED TOOTH DESIGN

The pinion teeth are engaged the full length and stroke of the piston. The pinion height allows manual override without disturbing the indicated positions.

HIGH VISIBILITY POSITION INDICATION

External open/close indicator as standard, available for all the rotations.

HIGH CYCLE LIFE WEAR PADS

Pistons incorporate double wear pads to separate the rack from the actuator wall and serve as both guide and wear bearings.

PRE-LOADED SPRING CARTRIDGES FOR SAFETY

Epoxy coated special steel springs are pre-loaded with non-metallic materials. The stainless steel end cap fasteners are extra long to allow for spring relaxation. All parts are corrosion resistant.

ALTERNATIVE OPERATING MEDIA

Air pressure operation from 40–150 PSI (2 to 10 Bar). Water, nitrogen and compatible hydraulic fluids may also be used to power the actuator.

STAINLESS STEEL FASTENERS

All external fasteners are corrosion resistant stainless steel.

HONED BORE FOR HIGH CYCLE LIFE

The SS Series body is internally machined and honed to exact specifications. Honing prevents dry spots from forming within the actuator bore and therefore eliminates premature seal failure—a critical aspect to long cycle life. All units are permanently lubricated at the factory with non-silicone grease.

TRACEABILITY

All units are externally stamped with a progressive traceable serial number.

QUALITY ASSURANCE

100% of all units are factory pressure and leak tested, and individually boxed for shipment.

ACCESSORIES

Max-Air offers a wide range of adapters for many different types of valves, including BFV, BALL and PLUG types.

Please call for details.

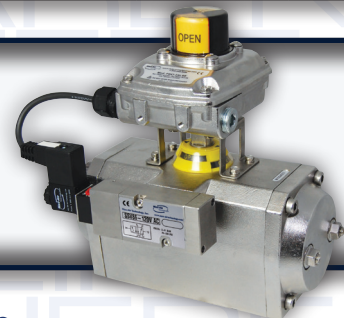
DOUBLE ACTING TORQUE VALUES

Torque values (in-lbs)

TYPE	40 PSIG	60 PSIG	80 PSIG	100 PSIG	120 PSIG
SS12*	62	94	125	156	187
SS16	137	206	275	344	412
SS21	250	375	500	625	750
SS26	375	562	750	937	1125
SS31	500	750	1000	1250	1500
SS36	800	1200	1600	2000	2400
SS41	1000	1500	2000	2500	3000
SS46	1562	2344	3125	3906	4687
SS56	3000	4500	6000	7500	9000
SS66	6000	9000	12000	15000	18000

*SS12 comes standard without dual travel stops

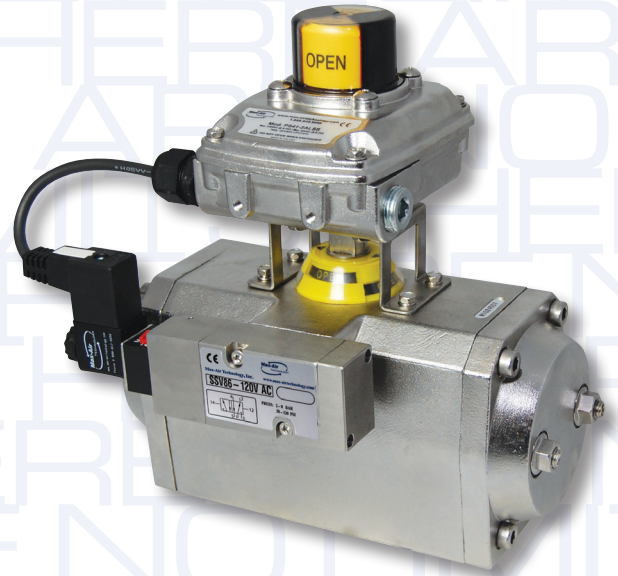
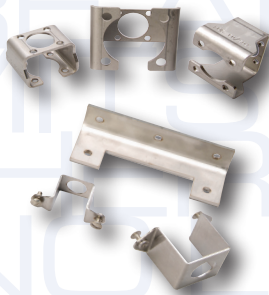
Max-Air Technology's new stainless steel actuators are by design, best in class. The SS Series actuators take corrosion resistance to the extreme with all of the great engineering features that separate Max-Air from the competition. Our stainless steel actuators conform to the ISO standard which makes valve automation easy and cost effective. Max-Air Technology's dual patented travel stops allow up to 110° of stroke in a 90° actuator, far superior in positioning adjustment.



SPRING RETURN SS12-SS66

	POS. 1 CLOSING TORQUE (SPRING)			POS. 2-OPENING TORQUE									
	#Springs	START	END	40 PSIG		60 PSIG		80 PSIG		100 PSIG		120 PSIG	
				START	END	START	END	START	END	START	END	START	END
SS12	1+1	33	22	40	29	72	61	103	92	134	123	165	154
	2+2	66	44	-	-	50	28	81	59	112	90	143	121
	3+3	99	66	-	-	-	-	58	27	90	66	121	88
SS16	2+2	75	53	84	62	153	131	222	200	291	269	359	337
	3+3	112	81	56	25	125	94	194	163	263	232	331	300
	4+4	150	107	-	-	99	56	168	125	237	194	305	262
	5+5	187	134	-	-	72	19	141	88	210	157	278	225
	7+5	224	160	-	-	-	-	115	51	184	120	252	188
SS21	2+2	122	92	158	128	283	253	408	378	533	503	628	628
	3+3	184	138	112	66	237	191	362	316	487	441	612	566
	4+4	245	184	66	5	191	130	316	255	441	380	566	505
	5+5	307	230	-	-	145	68	270	193	395	318	520	443
	7+5	369	278	-	-	97	6	222	131	347	256	472	381
SS26	2+2	196	124	251	179	438	366	626	554	813	741	1001	929
	3+3	294	185	190	81	377	268	565	456	752	643	940	831
	4+4	392	247	-	-	315	170	503	358	690	545	878	733
	5+5	490	309	-	-	253	72	441	260	628	447	816	635
	7+5	588	372	-	-	-	-	378	162	565	349	753	537
SS31	2+2	251	187	313	249	563	499	813	749	1063	999	1313	1249
	3+3	376	280	220	124	470	374	720	624	970	874	1220	1124
	4+4	502	374	-	-	376	248	626	498	876	748	1126	998
	5+5	627	467	-	-	283	123	533	373	783	623	1033	873
	7+5	753	560	-	-	-	-	440	247	690	497	940	747
SS36	2+2	412	306	494	388	894	788	1294	1188	1694	1588	2094	1988
	3+3	617	461	339	183	739	583	1139	983	1539	1383	1939	1783
	4+4	824	614	-	-	586	376	986	776	1396	1176	1786	1576
	5+5	1029	767	-	-	433	171	833	571	1233	971	1633	1371
	7+5	1236	921	-	-	-	-	679	364	1079	764	1479	1164
SS41	2+2	505	371	629	495	1129	995	1629	1495	2129	1995	2629	2495
	3+3	757	556	444	243	944	743	1444	1243	1944	1743	2444	2243
	4+4	1011	741	-	-	759	489	1259	989	1759	1489	2259	1989
	5+5	1263	929	-	-	572	237	1072	737	1572	1237	2072	1737
	7+5	1516	1113	-	-	-	-	887	484	1387	984	1887	1484
SS46	2+2	890	560	1002	672	1784	1454	2565	2235	3346	3016	4127	3797
	3+3	1334	840	722	228	1504	1010	2285	1791	3066	2572	3847	3353
	4+4	1779	1120	-	-	1224	565	2005	1346	2786	2127	3567	2908
	5+5	2224	1399	-	-	945	120	1726	901	2507	1682	3288	2463
	7+5	2669	1679	-	-	-	-	1446	456	2227	1237	3008	2018
SS56	2+2	1487	1055	1945	1513	3445	3013	4945	4513	6445	6013	7945	7513
	3+3	2231	1583	1417	769	2917	2269	4417	3769	5917	5269	7417	6769
	4+4	2974	2111	889	26	2389	1526	3889	3026	5389	4526	6889	6026
	5+5	3718	2638	-	-	1862	782	3362	2282	4862	3782	6362	5282
	7+5	4462	3166	-	-	1334	38	2834	1538	4334	3038	5834	4538
SS66	2+2	2810	2084	3916	3190	6916	6190	9916	9190	12916	12190	15916	15190
	3+3	4215	3126	2874	1785	5874	4785	8874	7785	11874	10785	14874	13785
	4+4	5619	4269	1831	381	4831	3381	7831	6381	10831	9381	13831	12381
	5+5	7024	5211	-	-	3789	1976	6789	4976	9789	7976	12789	10976
	7+5	8430	6252	-	-	-	-	5748	3570	8748	6570	11748	9570

Please ask about our stainless steel limit switch and solenoid valve to complement our stainless steel actuators.



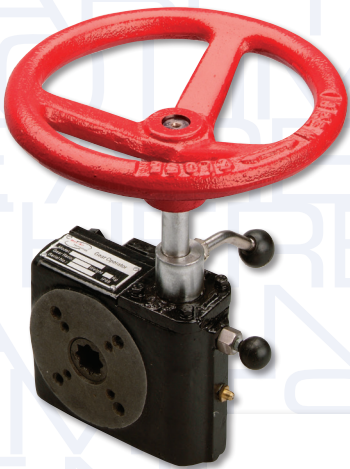
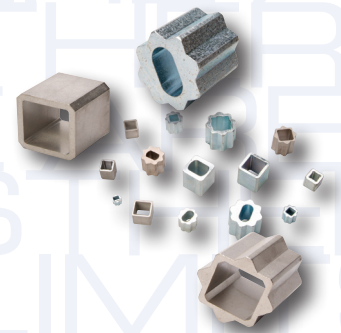
Max-Air

TECHNOLOGY

The Best Way to Automate Your Process

Did you know that we provide the following services?

- 2D and 3D CAD Assembly Drawings
- Trained Technical Support Services
- On-site Commissioning Services
- Engineering System Design Services



Your nearest Max-Air dealer can be found at:

