



TECHNICAL CATALOG
PNEUMATIC ACTUATORS
Rack & Pinion



**We are specialized
in the manufacture
of high quality
actuators**



ACTREG, established in 1992, is a multinational company specializing in the manufacture and sales of high quality actuators for industrial valves for either On/Off or modulating duty.

The expertise and know how has made **ACTREG** leader in actuation technology.

ACTREG provides world coverage thanks to the strategic locations of its factories and offices.

The international distribution network ensures quick availability and more important, personalized service for valve manufacturers, valve stocking distributors and contractors.



Power in automation

ESTABLISHED IN
1992

INTERNATIONAL
Distribution

DESIGN &
Quality

LEADERS IN
Technology

PERSONALIZED
Service

We are a manufacturer of rack and pinion aluminium housing actuators with torque figures up to 6.500 Nm and scotch yoke actuators for heavy duty service up to 700.000 Nm. Our products offer reliable and dependable automation for industrial valves.



The precision in design and quality provides a long and safe operational performance in valve control.



ACTREG has invested in quality assurance, state-of-the-art machining and testing facilities in order to assist customers in safely controlling their processes.



ACTREG engineers are happy to help you with your automation requirements.

OUR MISSION

Is to be the world's most reliable company in actuators management through our industry expertise, innovative solutions and community commitment.



RACK AND PINION Aluminium housing

TORQUES UP TO
6.500 Nm

ACTUATORS IN
14 different sizes

CERTIFICATES

ACTREG S.A.U. has a Quality Management System certified in accordance with the requirements of ISO 9001:2015 for the design, development, manufacturing and distribution of pneumatic actuators and accessories for valves.

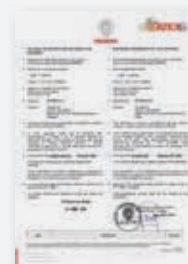
ADA/ASR 10 up to size 300 are classified as category SEP in accordance with Pressure Equipment Directive 2014/68/EU. ADA/ASR 500 up to size 4000 are classified as Category I, Procedure module A.

All **ACTREG** actuators are classified for use in potentially explosive atmospheres as Group II Category 2, suitable for zones 1, 2, 21 and 22 in accordance with directive 2014/34/EU "ATEX".

All **ACTREG** actuators are tested and certified according to IEC61508:2010 and have a SIL3 capability. In addition, we can supply the final elements loops for SIF, with a full SIL calculations including valves and ancillaries, so we can provide a SIL certificate for the complete final element units.

TR-CU (Technical Regulations of Customs Union) certificates for Eurasian countries (EAC).

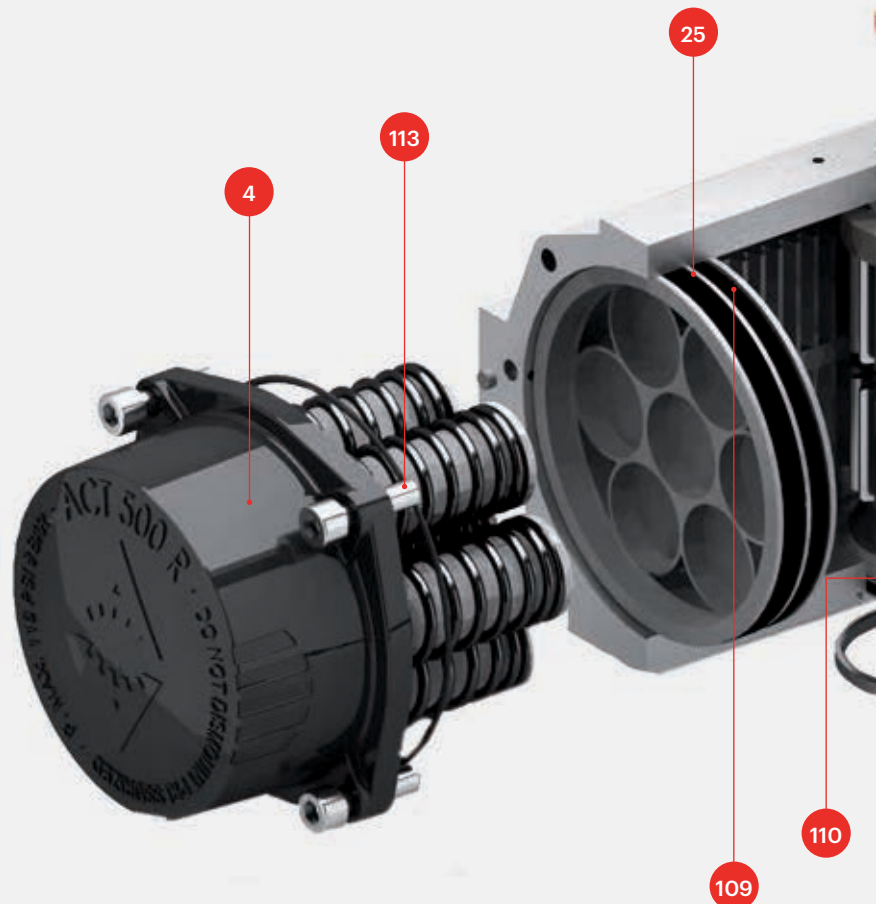
TYPE approval for Pipping systems offshore standard, marine and machinery systems and equipment.



PARTS & MATERIALS

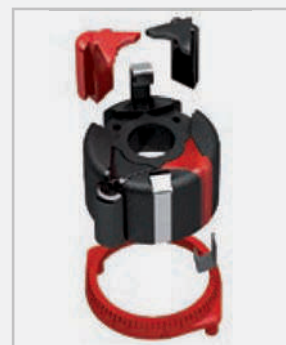
- 1 Body**
Aluminium Hard Anodized
- 2 Piston**
Aluminium
- 3 Pinion**
Nickel Plated Carbon Steel
- 4 End Caps**
Aluminium Epoxy Coated
- 5 Soft Pinion Washer ***
Polyamide PA 6,6
- 6 Slide Piston ***
Polyamide PA 6,6 + 30% G.F.
- 7 Lug ****
SUS304
- 8 Pinion Washer**
Stainless Steel
- 10 Upper Pinion Bearing**
Polyamide PA 6,6 (bronze for sizes 500 and 2100)
- 12 Stop**
ASTM A 105
- 14 Spring's Long Support**
Polyamide PA 6,6
- 15 Spring's Short Support**
Polyamide PA 6,6
- 16 Leveling Screw**
Stainless Steel
- 18 Bolt**
Stainless Steel
- 19 Spring**
DIN 2076 · D-5.6
- 20 Position Indicator**
Polypropylene
- 21 Cam**
Polypropylene
- 23 Centering Ring**
Nickel Plated Carbon Steel
- 25 Slide Guide ***
Polyamide PA 6,6 + 30% G.F.
- 26 Lower Pinion Bearing ***
Polyamide PA 6,6
- 109 O-Ring ***
NBR
- 110 O-Ring ***
NBR
- 111 O-Ring ***
NBR

SPRING RETURN ACTUATOR (ASR)



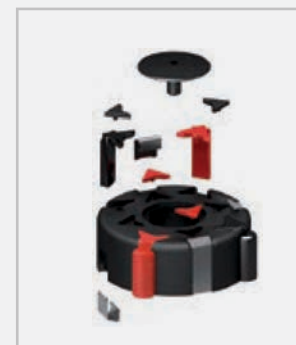
POSITION INDICATOR

FROM SIZE 20 TO 850



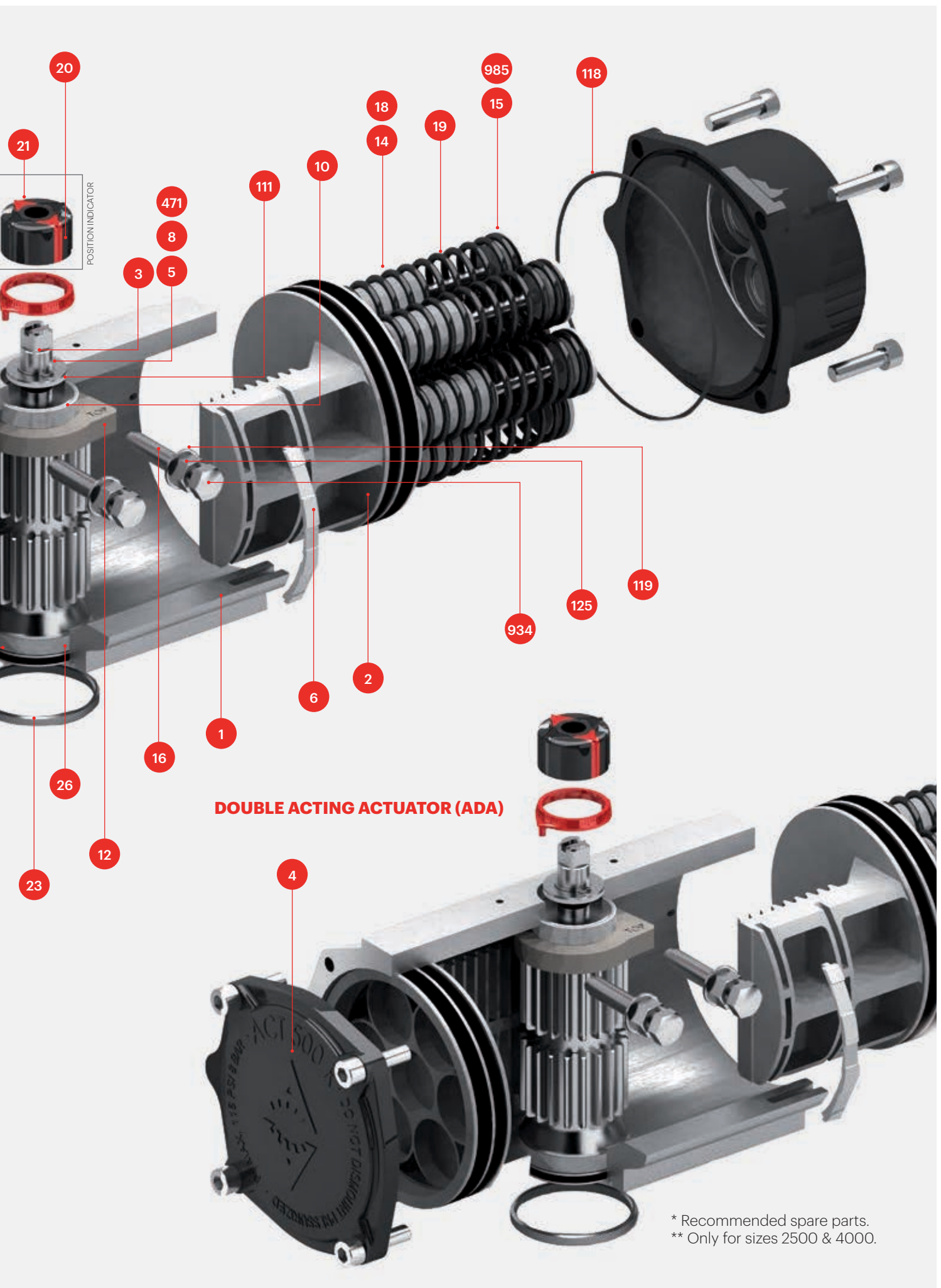
Inserts
Stainless Steel

FROM SIZE 1200 TO 4000



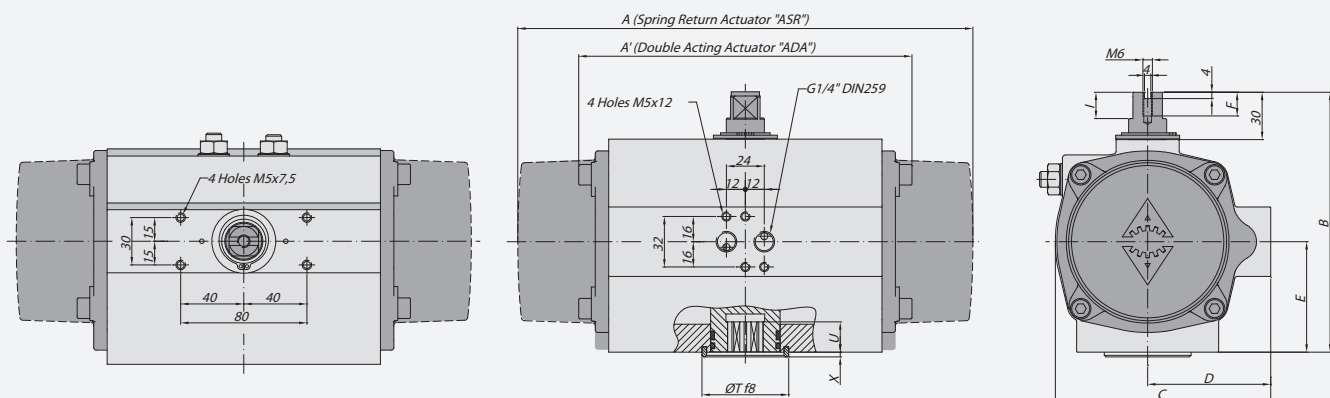
Position indicator & Cams
Polypropylene

- 113 Bolt**
Stainless Steel
- 118 O-Ring ***
NBR
- 119 O-Ring ***
NBR
- 125 Washer**
Stainless Steel
- 471 Slip Washer ***
Stainless Steel
- 934 Nut**
Stainless Steel
- 985 Nut**
Stainless Steel

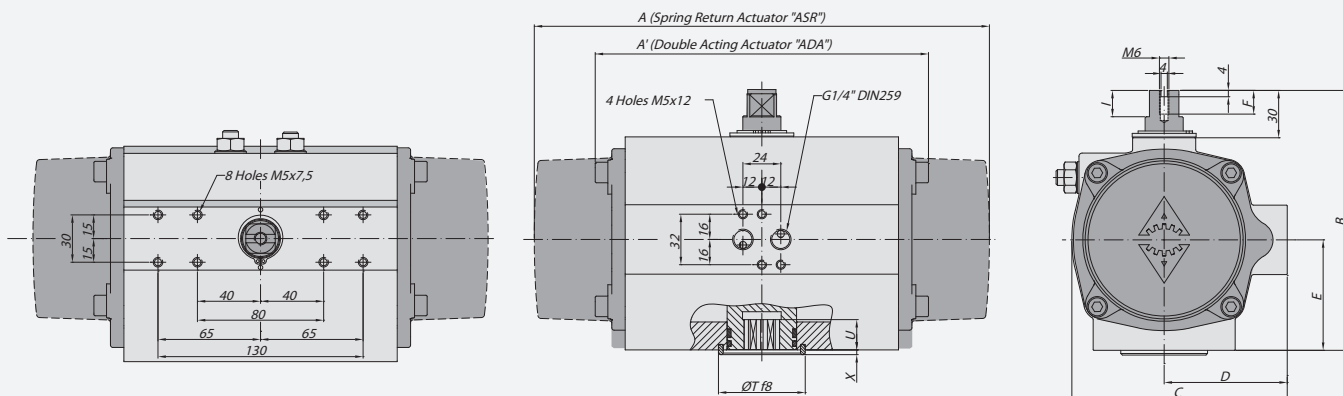


GENERAL DIMENSIONS (mm)

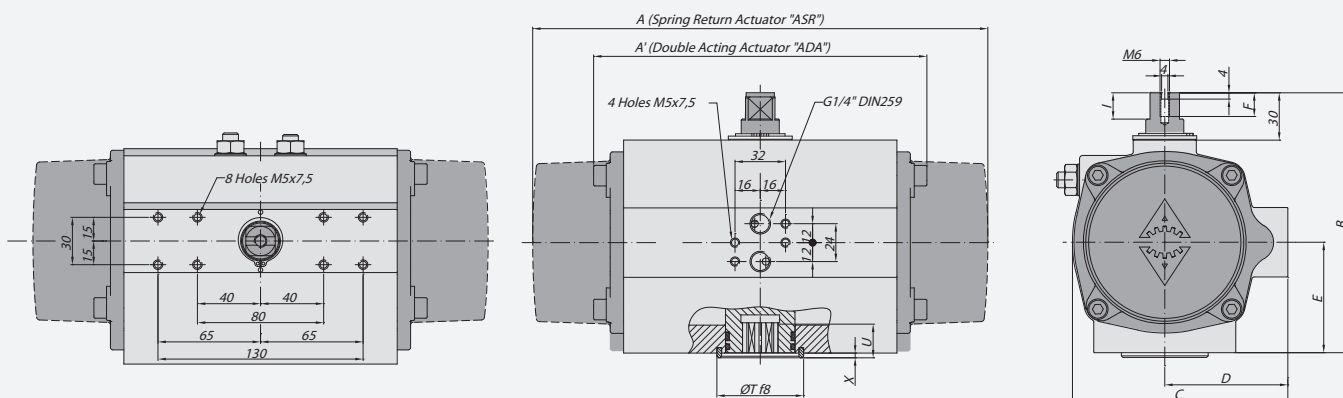
SIZES 10 | 20 | 40 | 80 | 130 | 200 | 300 | 500 | 850



SIZES 1200 | 1750



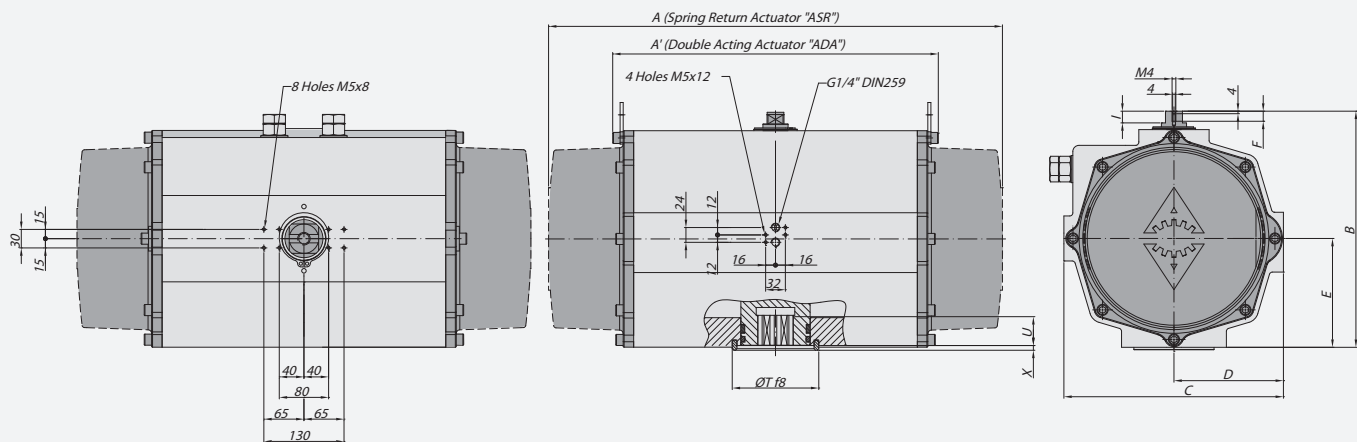
SIZES 2100



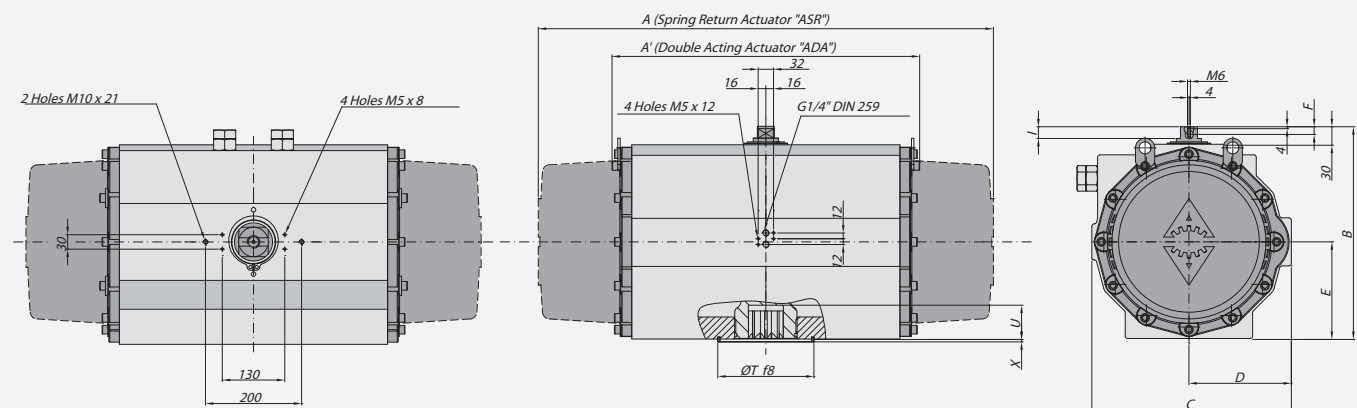
DOUBLE ACTING & SPRING RETURN ACTUATORS GENERAL DIMENSIONS (mm)

SIZE	A	A'	B	C	D	E	F	I	R	øS	ISO 5211	øL	MxV	ISO 5211	øL1	M1xV1	øT	X	U
10	-	100	76	56	33	23	9	6	9	12,5	F03	36	M5x8	-	-	-	11	2	12
20	163	145	96	76	48	34	9	12,5	9	12,5	F03	36	M5x8	F05	50	M6x10	25	2	10
20	163	145	96	76	48	34	9	12,5	14	18,1	F05	50	M6x10	-	-	-	35	3	12
20	163	145	96	76	48	34	9	12,5	14	18,1	F04	42	M5x10	-	-	-	35	3	12
40	195	158	115	91	56	45	9	12,5	14	18,1	F04	42	M5x10	-	-	-	35	3	12
40	195	158	115	91	56	45	9	12,5	14	18,1	F05	50	M6x10	-	-	-	35	3	12
80	217	177	137	111	66	55	12	12,5	17	22,5	F05	50	M6x10	F07	70	M8x16	55	3	19
130	258	196	147	122	71	60	12	12,5	17	22,5	F05	50	M6x10	F07	70	M8x16	55	3	22
200	299	225	165	135,5	78	70	12	12,5	17	22,5	F07	70	M8x16	F10	102	M10x16	55	3	23

SIZES 2500



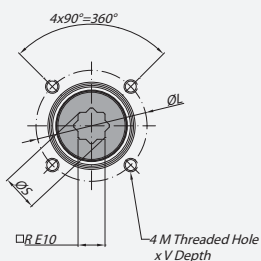
SIZES 4000



ISO 5211 DETAIL

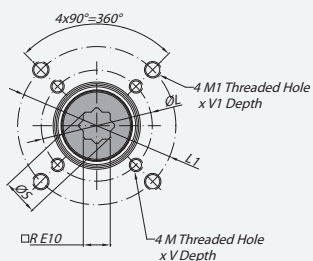
SIZES

10 | 20 | 40 | 500 | 1750 | 2100 | 2500



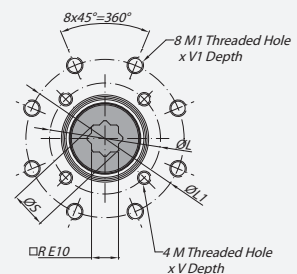
SIZES

20 | 80 | 130 | 200 | 300 | 850 | 1200



SIZES

4000

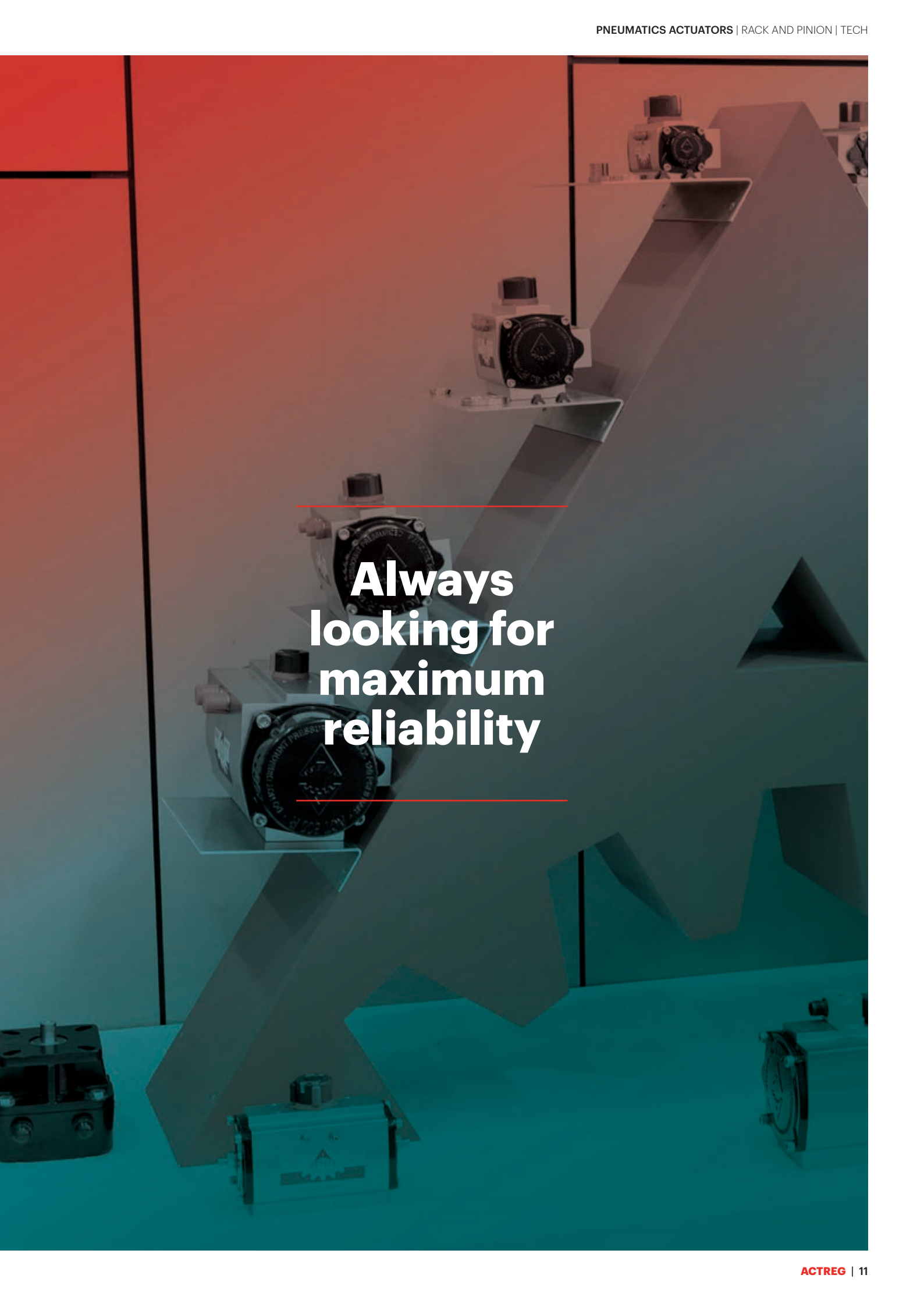


DOUBLE ACTING & SPRING RETURN ACTUATORS GENERAL DIMENSIONS (mm)

SIZE	A	A'	B	C	D	E	F	I	R	øS	ISO 5211	øL	MxV	ISO 5211	øL1	M1xV1	øT	X	U
300	348,5	273	182	152,5	86	80	12	12,5	22	28,5	F07	70	M8x16	F10	102	M10x16	70	3	24
500	410	314	199	173	96	85	12	12,5	22	28,5	F10	102	M10x16	-	-	-	70	3	32
850	473	372	221	191,5	106	98	12	12,5	27	36,5	F10	102	M10x17	F12	125	M12x20	85	3	39
1200	560	439	249	212,5	116	114	16	18,6	36	48,5	F10	102	M10x17	F14	140	M16x26	100	4	48
1750	601	461	280	242,5	131	130	16	18,6	36	48,5	F14	140	M16x26	-	-	-	100	4	50
2100	702	510	313	276,5	148	147	16	18,6	46	60,1	F16	165	M20x29	-	-	-	130	4	50
2500	738	518	383	356	177,5	176,5	16	18,6	46	60,2	F16	165	M20x29	-	-	-	130	4	58
4000	940	630	434	415	213	201	16	18,6	55	72,5	F16	165	M20x30	F25	254	M16x30	200	4	60

DOUBLE ACTING ACTUATOR TORQUE OUTPUT (Nm)																							
Size	3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5 bar		7 bar		8 bar		10 bar		Weight (kg)
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
10	3		4		4,5		5,1		6		6,5		7		7,5		8,2		9,1		11		0,64
20	9,7		11,4		13		14,6		16,2		17,8		19,5		21,1		23		26		-		1,4
40	20,3		23,7		27,1		30,5		33,9		37,3		41		44		47		54		-		2,1
80	38,5		44,9		51,3		57,7		64,1		70,5		77		83		90		103		-		3
130	59,1		68,9		78,7		88,6		98,4		108,3		118		128		138		157		-		3,8
200	88		102		117		131		146		161		175		190		205		234		-		5,6
300	145		170		194		218		242		267		291		315		339		388		-		8,5
500	217		253		289		325		361		397		433		469		505		577		-		11,2
850	359		419		479		538		598		658		718		778		837		957		-		16,9
1200	519		606		692		779		865		952		1038		1125		1211		1384		-		25,8
1750	707		824		942		1060		1178		1295		1413		1531		1649		1884		-		32,5
2100	1086		1267		1448		1629		1810		1991		2172		2353		2534		2896		-		49,7
2500	1730		2019		2307		2596		2884		3172		3461		3749		4038		4614		-		69,6
4000	2408		2809		3210		3612		4013		4414		4816		5217		5618		6421		-		129,4

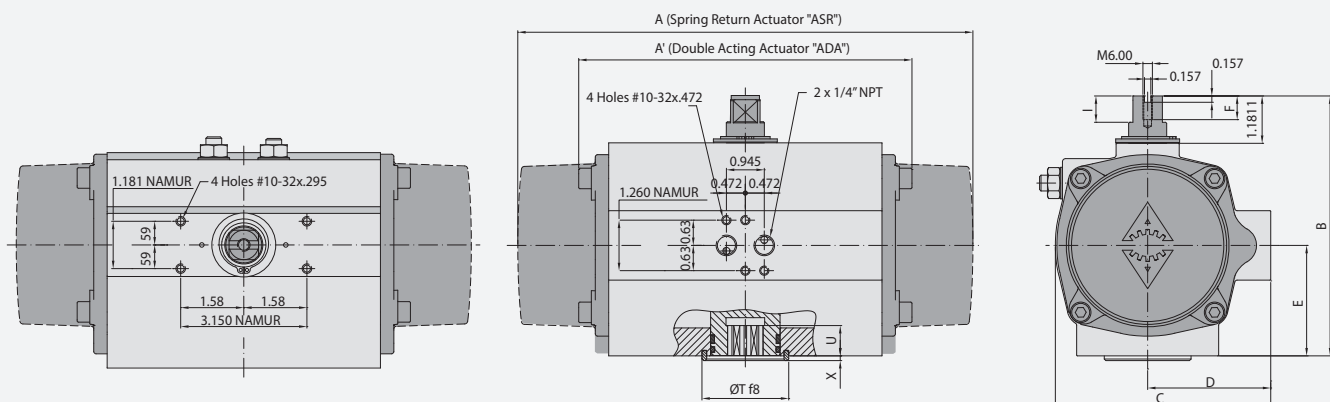
Spring Return Actuator Torque Output (Nm)																										
Size	Type Pressure	3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5 bar		7 bar		8 bar		Spring Stroke		Weight (kg)		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	START	END			
20	S04			8	5	9	7			11	10	14	12	16	13	17	15	19	17	22	20	7	4	1,51		
	S06 A										11	7	12	9	14	10	15	12	17	13	20	17	11	7	1,54	
	S08												10	5	12	7	14	9	15	10	18	14	15	9	1,56	
40	S04	16	14	20	17	23	20	26	24	30	27	33	30	37	34	40	37	43	41	50	47	8	5	2,17		
	S06	14	10	18	14	21	17	24	20	28	24	31	27	34	30	38	34	41	37	48	44	12	7	2,20		
	S08			15	10	19	14	22	17	26	20	29	24	32	27	36	30	39	34	46	41	16	10	2,23		
	S10							20	14	24	17	27	20	30	24	34	27	37	30	44	37	20	12	2,26		
	S12									21	13	25	17	28	20	32	24	35	27	42	34	24	15	2,29		
80	S14 A											23	13	26	17	30	20	33	24	40	30	28	17	2,32		
	S04	31	27	38	34	44	40	50	46	57	53	63	59	70	66	76	72	82	78	95	91	13	9	3,28		
	S06	27	21	34	28	40	34	47	41	53	47	59	53	66	60	72	66	79	73	92	86	20	13	3,36		
	S08					37	29	43	35	49	41	56	48	62	54	69	61	75	67	88	80	27	17	3,43		
	S10							39	29	46	36	52	42	59	49	65	55	71	61	84	74	33	22	3,51		
	S12									42	30	48	36	55	43	61	49	68	56	81	69	40	26	3,58		
130	S14 A											45	31	51	37	58	44	64	50	77	63	47	30	3,65		
	S06	43	36	52	46	62	56	72	65	82	75	92	85	102	95	111	105	121	115	141	134	27	19	4,40		
	S08			47	38	57	48	67	58	76	68	86	77	96	87	106	97	116	107	135	127	36	26	4,50		
	S10					51	40	61	50	71	60	81	70	91	80	100	89	110	99	130	119	45	32	4,60		
	S12							56	42	65	52	75	62	85	72	95	82	105	92	124	111	54	39	4,70		
200	S14 A											70	54	80	64	89	74	99	84	119	103	64	45	4,80		
	S06	61	49	76	63	90	78	105	92	119	107	134	122	149	136	163	151	178	166	207	195	46	31	6,50		
	S08			67	50	81	65	96	79	111	94	125	109	140	123	154	138	169	152	198	182	61	42	6,70		
	S10					72	52	87	66	102	81	116	96	131	110	146	125	160	139	189	169	77	52	6,90		
	S12							78	53	93	68	107	83	122	97	137	112	151	126	180	156	92	63	7,00		
300	S14 A											99	70	113	84	128	99	142	113	172	143	107	73	7,30		
	S06	102	75	126	99	151	123	175	148	199	172	223	196	247	220	272	245	296	269	344	317	83	51	9,65		
	S08			112	76	136	100	160	124	185	148	209	173	233	197	257	221	281	245	330	294	111	68	9,92		
	S10					122	76	146	101	170	125	194	149	219	173	243	198	267	222	315	270	138	85	10,20		
	S12							131	77	156	101	180	126	204	150	228	174	253	198	301	247	166	102	10,50		
500	S14 A											165	102	190	126	214	151	238	175	287	223	193	119	10,80		
	S06	152	119	188	155	224	191	260	227	296	263	333	299	369	335	405	371	441	407	513	480	115	76	13,33		
	S08	131	86	167	122	203	158	239	194	275	231	311	267	347	303	383	339	419	375	492	447	153	101	13,84		
	S10					181	126	217	162	254	198	290	234	326	270	362	306	398	342	470	414	192	126	14,35		
	S12							196	129	232	165	268	201	304	238	340	274	376	310	449	382	230	152	14,85		
850	S14 A											247	169	283	205	319	241	355	277	427	349	268	177	15,36		
	S06	260	209	320	269	380	328	440	388	500	448	559	508	619	568	679	627	739	687	858	807	177	116	19,7		
	S08	227	159	287	218	347	278	407	338	467	398	526	458	586	518	646	577	706	637	826	757	236	155	20,3		
	S10			254	168	314	228	374	288	434	348	494	408	553	467	613	527	673	587	793	707	295	193	20,9		
	S12							341	238	401	298	461	358	521	417	580	477	640	537	760	657	353	232	21,6		
1200	S14 A											428	307	488	367	547	427	607	487	727	607	412	271	22,2		
	S06	373	289	460	376	546	462	633	549	720	635	806	722	893	808	979	895	1066	981	1239	1154	271	171	30,1		
	S08	325	213	411	299	498	386	584	472	671	559	758	645	844	732	931	818	1017	905	1190	1078	361	229	31,1		
	S10	276	136	363	222	449	309	536	395	622	482	709	569	795	655	882	742	969	828	1142	1001	451	286	32,2		
	S12					401	232	487	319	574	405	660	492	747	578	833	665	920	751	1093	924	541	343	33,2		
1750	S14 A											525	329	612	415	698	502	785	588	871	675	1044	848	631	400	34,3
	S06	477	349	595	466	712	584	830	702	948	820	1066	937	1183	1055	1301	1173	1419	1291	1654	1526	421	270	39,3		
	S08	400	229	518	347	636	465	754	582	871	700	989	818	1107	936	1225	1053	1342	1171	1578	1407	562	360	41,0		
	S10			441	228	559	345	677	463	795	581	912	699	1030	816	1148	934	1266	1052	1501	1287	702	451	42,7		
	S12							600	344	718	461	836	579	954	697	1071	815	1189	933	1425	1168	843	541	44,4		
2100	S14 A											642	342	759	460	877	578	995	695	1113	813	1348	1049	983	631	46,0
	S06	702	509	883	690	1064	871	1245	1052	1426	1233	1607	1414	1788	1595	1969	1776	2150	1957	2512	2319	577	384	60,3		
	S08	574	316	755	497	936	678	1117	859	1298	1040	1479	1221	1660	1402	1841	1583	2022	1764	2384	2126	770	512	62,5		
	S10			627	305	808	486	989	667	1170	848	1351	1029	1532	1210	1713	1391	1894	1572	2256	1934	962	640	64,2		
	S12							861	474	1042	655	1223	836	1404	1017	1585	1198	1766	1379	2128	1741	1154	768	66,3		
2500	S14 A											914	463	1095	644	1276	825	1457	1006	1638	1187	2000	1549	1347	896	68,0
	S06	1299	1045	1587	1333	1876	1622	2164	1910	2453	2199	2741	2487	3029	2775	3318	3064	3606	3352	4183	3929	806	508	85,9		
	S08	1155	816	1444	1105	1732	1393	2020	1682	2309	1970	2597	2258	2886	2547	3174	2835	3462	3124	4039	3700	1075	677	89,4		
	S10			1300	876	1588	1165	1877	1453	2165	1742	2453	2030	2742	2318	3030	2607	3319	2895	3895	3472	1344	846	92,9		
	S12					1444	936	1733	1225	2021	1513	2310	1802	2598	2090	2886	2378	3175	2667	3752	3243	1613	1015	96,4		
4000	S14 A							1589	996	1877	1285	2166	1573	2454	1861	2742	2150	3031	2438	3608	3015	1882	1184	99,9		
	S06	1763	1262	2165	1663	2566	2065	2967	2466	3369	2867	3770	3269									1348	758	158,7		
	S08	1549	880	1950	1282	2351	1683	2752	2084	3154	2485	3555	2887	3956	3288	4358	3689	4759	4091	5068	4399	1797	1011	164,7		
	S10					2136	1301	2538	1702	2939	2104	3340	2505	3742	2906	4143	3307	4544	3709	4853	4017	2246	1264	170,8		
	S12							2323	1320	2724	1722	3125	2123	3527	2524	3928	2926	4329	3327	4638	3636	2696	1516	176,9		
	S14 A											2911	1743	3312	2142	3713	2544	4115	2945	4423	3254	3145	1769	182,9		



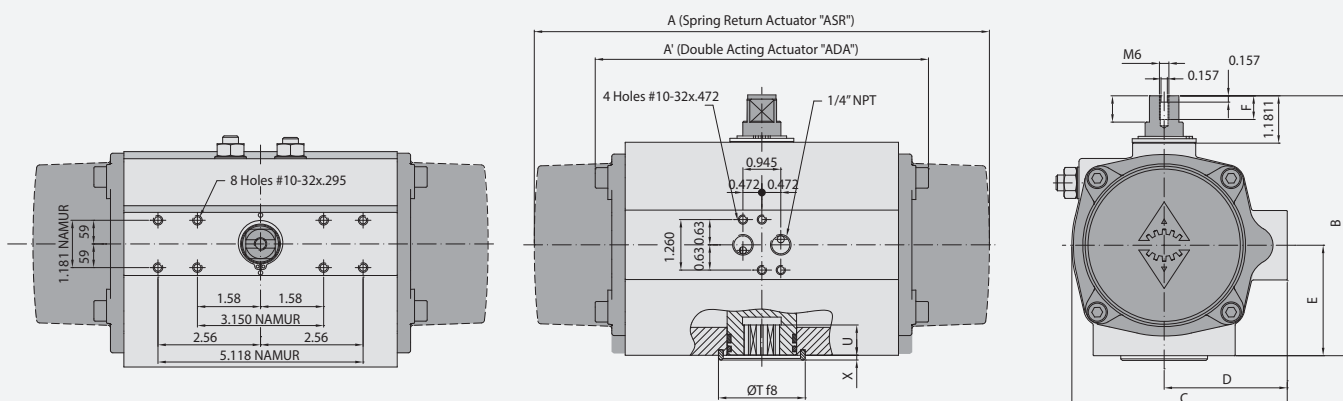
**Always
looking for
maximum
reliability**

GENERAL DIMENSIONS (inch)

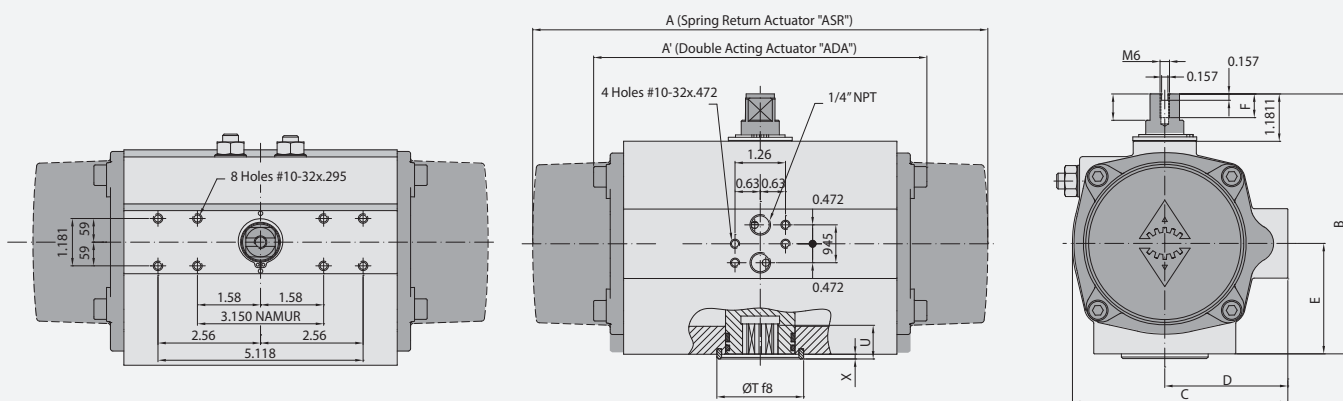
SIZES 10 | 20 | 40 | 80 | 130 | 200 | 300 | 500 | 850



SIZES 1200 | 1750



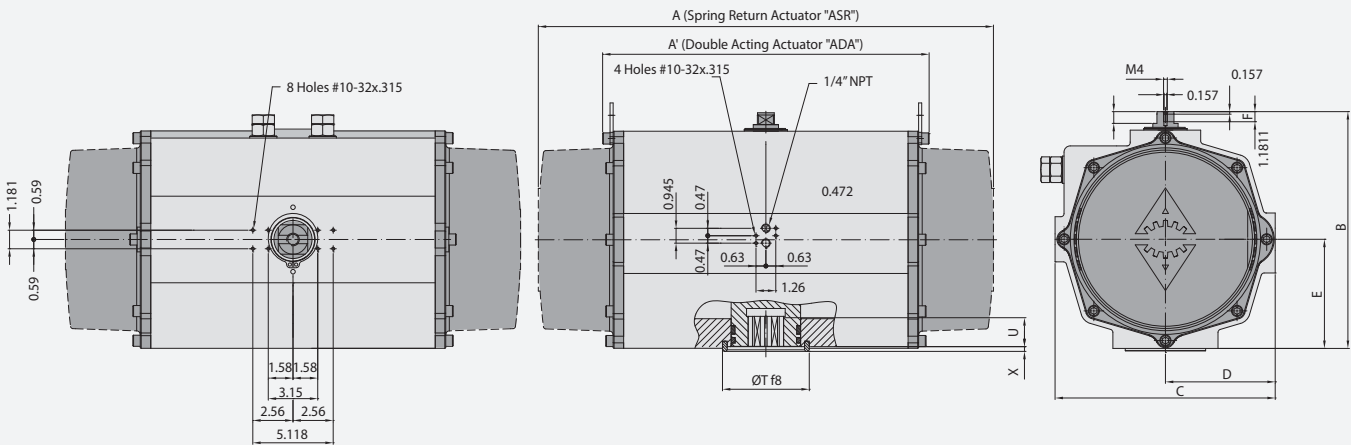
SIZES 2100



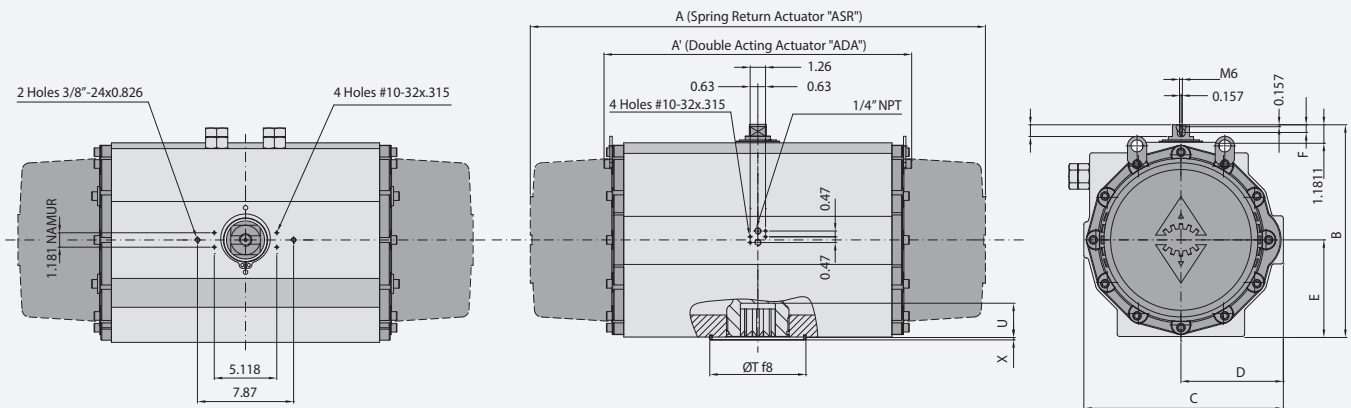
DOUBLE ACTING & SPRING RETURN ACTUATORS GENERAL DIMENSIONS (inch)

SIZE	A	A'	B	C	D	E	F	I	R	øS	ISO 5211	øL	MxV	ISO 5211	øL1	M1xV1	øT	X	U
10	-	3.937	2.992	2.205	1.299	0.906	0.354	0.236	0.354	0.492	F03	1.417	10-32 UNF x.315	-	-	-	0.433	0.079	0.472
20	6.417	5.709	3.780	2.992	1.890	1.339	0.354	0.492	0.354	0.492	F03	1.417	10-32 UNF x.315	F05	1.969	1/4"-20 UNCx.394	0.984	0.079	0.394
20	6.417	5.709	3.780	2.992	1.890	1.339	0.354	0.492	0.551	0.713	F05	1.969	1/4"-20 UNCx.394	-	-	-	1.378	0.118	0.472
20	6.417	5.709	3.780	2.992	1.890	1.339	0.354	0.492	0.551	0.713	F04	1.654	10-32 UNF x.394	-	-	-	1.378	0.118	0.472
40	7.677	6.220	4.528	3.583	2.205	1.772	0.354	0.492	0.551	0.713	F04	1.654	10-32 UNF x.394	-	-	-	1.378	0.118	0.472
40	7.677	6.220	4.528	3.583	2.205	1.772	0.354	0.492	0.551	0.713	F05	1.969	1/4"-20 UNCx.394	-	-	-	1.378	0.118	0.472
80	8.543	6.969	5.394	4.370	2.598	2.165	0.472	0.492	0.669	0.886	F05	1.969	1/4"-20 UNCx.394	F07	2.756	5/16"-18 UNC x.669	2.165	0.118	0.748
130	10.157	7.717	5.787	4.803	2.795	2.362	0.472	0.492	0.669	0.886	F05	1.969	1/4"-20 UNCx.394	F07	2.756	5/16"-18 UNC x.669	2.165	0.118	0.866
200	11.772	8.858	6.496	5.335	3.071	2.756	0.472	0.492	0.669	0.886	F07	2.756	5/16"-18 UNC x.669	F10	4.016	3/8" - 16 UNCx.669	2.165	0.118	0.906

SIZES 2500



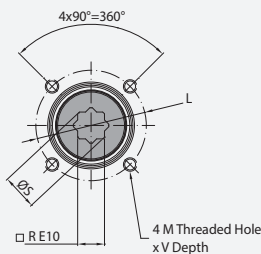
SIZES 4000



ISO 5211 DETAIL

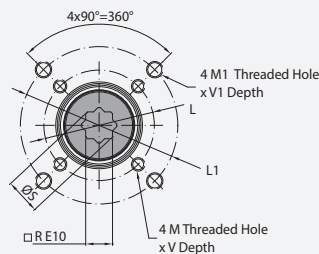
SIZES

10 | 20 | 40 | 500 | 1750 | 2100 | 2500



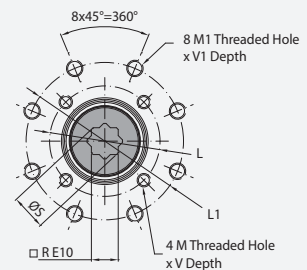
SIZES

20 | 80 | 130 | 200 | 300 | 850 | 1200



SIZES

4000



DOUBLE ACTING & SPRING RETURN ACTUATORS GENERAL DIMENSIONS (inch)

SIZE	A	A'	B	C	D	E	F	I	R	øS	ISO 5211	øL	MxV	ISO 5211	øL1	M1xV1	øT	X	U
300	13.720	10.748	7.165	6.004	3.386	3.150	0.472	0.492	0.866	1.122	F07	2.756	5/16"-18 UNC x.669	F10	4.016	3/8" -16 UNC x.669	2.756	0.118	0.945
500	16.141	12.362	7.835	6.811	3.780	3.346	0.472	0.492	0.866	1.122	F10	4.016	3/8" -16 UNC x.669	-	-	-	2.756	0.118	1.260
850	18.622	14.646	8.701	7.539	4.173	3.858	0.472	0.492	1.063	1.437	F10	4.016	3/8" -16 UNC x.669	F12	4.921	1/2"-13 UNC x.787	3.346	0.118	1.535
1200	22.047	17.283	9.803	8.366	4.567	4.488	0.630	0.732	1.417	1.909	F10	4.016	3/8" -16 UNC x.669	F14	5.512	5/8" -11 UNC x.1024	3.937	0.157	1.890
1750	23.661	18.150	11.024	9.547	5.157	5.118	0.630	0.732	1.417	1.909	F14	5.512	5/8" -11 UNC x.1024	-	-	-	3.937	0.157	1.969
2100	27.638	20.079	12.323	10.886	5.827	5.787	0.630	0.732	1.811	2.366	F16	6.496	3/4"-10 UNC x.1181	-	-	-	5.118	0.157	1.969
2500	29.055	20.394	15.079	14.016	6.988	6.949	0.630	0.732	1.811	2.370	F16	6.496	3/4"-10 UNC x.1181	-	-	-	5.118	0.157	2.283
4000	37.008	24.803	17.087	16.339	8.386	7.913	0.630	0.732	2.165	2.854	F16	6.496	3/4"-10 UNC x.1181	F25	10.000	5/8" -11 UNC x.1181	7.874	0.157	2.362

DOUBLE ACTING ACTUATOR TORQUE OUTPUT (inch lb)

Size	43.5 psi		50 psi		60 psi		70 psi		80 psi		90 psi		100 psi		100 psi		116 psi		145 psi		Weight (lb)
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
10	27		35		41		50		58		64		71		77		81		97		1.4
20	86		99		119		139		158		179		200		219		230		-		3.1
40	180		207		248		290		331		374		411		453		478		-		4.6
80	341		392		470		548		626		704		784		864		912		-		6.6
130	523		601		721		841		962		1082		1204		1321		1390		-		8.4
200	779		890		1070		1247		1430		1605		1788		1966		2071		-		12.3
300	1283		1482		1777		2070		2372		2665		2958		3256		3434		-		18.7
500	1921		2207		2647		3087		3526		3966		4406		4846		5107		-		24.7
850	3177		3655		4386		5112		5845		6578		7304		8035		8470		-		37.3
1200	4594		5287		6340		7397		8456		9510		10566		11622		12249		-		56.9
1750	6257		7189		8630		10071		11503		12945		14386		15822		16675		-		71.7
2100	9612		11054		13264		15475		17686		19897		22107		24318		25632		-		109.6
2500	15312		17614		21135		24659		28177		31703		35228		38747		40837		-		153.4
4000	21313		24507		29407		34311		39210		44116		49014		53917		56831		-		285.3

SPRING RETURN ACTUATOR TORQUE OUTPUT (inch lb)

Size	Type Pressure	43.5 psi		50 psi		60 psi		70 psi		80 psi		90 psi		100 psi		100 psi		116 psi		Spring Stroke		Weight (lb)		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	START	END			
																				90°	0°			
20	S04			64	40	85	64	109	82	125	107	145	122	165	147	184	166	195	177	62	35	3.3		
	S06 A								64	41	107	80	128	96	147	113	166	136	177	150	97	62	3.4	
	S08									89	45	114	69	131	87	148	109	159	124	133	80	34	3.4	
40	S04	142	124	173	148	211	187	253	230	293	267	339	312	375	356	417	394	443	416	71	44	4.8		
	S06	124	89	156	120	193	158	236	200	275	240	316	280	358	322	399	364	425	389	106	62	4.9		
	S08			119	80	176	131	218	168	258	213	298	250	340	294	382	337	407	363	142	89	4.9		
	S10							200	141	240	178	280	224	322	260	364	302	389	327	177	106	5.0		
	S12							123	76	222	152	263	192	304	234	346	276	372	301	212	133	5.0		
80	S14 A									205	116	245	162	287	205	329	244	354	266	248	150	5.1		
	S04	274	239	330	295	404	369	483	448	560	525	642	606	715	680	794	758	841	805	115	80	7.2		
	S06	239	186	295	242	371	318	451	398	525	472	606	553	687	634	767	714	814	761	177	115	7.4		
	S08					342	272	416	345	498	427	575	504	653	582	732	661	779	708	239	150	7.6		
	S10							386	298	463	374	544	456	618	529	696	608	743	655	292	195	7.7		
130	S12							245	175	427	321	509	403	589	483	670	564	717	611	354	230	7.9		
	S14 A									400	276	477	353	556	432	634	510	682	558	416	266	8.0		
	S06	381	319	452	398	574	518	696	634	818	756	936	878	1053	1000	1175	1117	1248	1186	239	168	9.7		
	S08			374	303	529	450	646	572	765	685	887	807	1009	929	1126	1051	1195	1124	319	230	9.9		
	S10					476	379	598	501	720	623	839	742	956	859	1078	981	1151	1053	398	283	10.1		
200	S12							548	430	667	552	789	674	912	797	1029	913	1097	982	478	345	10.4		
	S14 A									623	481	742	604	859	726	981	843	1053	912	566	398	10.6		
	S06	540	434	659	545	834	725	1011	902	1191	1085	1371	1259	1549	1443	1727	1621	1832	1726	407	274	14.3		
	S08			534	398	754	610	937	787	1112	970	1291	1144	1469	1321	1647	1502	1752	1611	540	372	14.8		
	S10					674	495	858	672	1032	855	1215	1029	1391	1205	1568	1387	1673	1496	682	460	15.2		
300	S12							778	557	952	740	1136	914	1312	1090	1488	1272	1593	1381	814	558	15.4		
	S14 A							881	625	1056	799	1232	975	1413	1157	1522	1266	1647	1435	947	646	16.1		
	S06	903	664	1094	855	1396	1151	1689	1450	1982	1743	2279	2040	2577	2338	2870	2632	3045	2806	735	451	21.3		
	S08			892	605	1263	945	1562	1238	1858	1540	2151	1833	2445	2126	2743	2424	2921	2602	982	602	21.9		
	S10					1139	735	1432	1034	1726	1327	2028	1624	2321	1922	2614	2216	2788	2390	1221	752	22.5		
500	S12							1305	822	1602	1124	1895	1417	2195	1710	2490	2008	2664	2186	1469	903	23.1		
	S14 A									1469	911	1771	1208	2064	1506	2362	1800	2540	1974	1708	1053	23.8		
	S06	1345	1053	1632	1340	2072	1780	2511	2219	2960	2659	3400	3099	3839	3539	4279	3983	4540	4248	1018	673	29.4		
	S08	1159	761	1446	1048	1886	1488	2326	1933	2765	2376	3205	2816	3645	3255	4090	3695	4355	3956	1354	894	30.5		
	S10					1691	1204	2137	1644	2579	2084	3019	2524	3459	2963	3899	3403	4160	3664	1699	1115	31.6		
850	S12							1945	1352	2385	1792	2824	2240	3264	2680	3709	3120	3974	3381	2036	1345	32.7		
	S14 A									2199	1509	2639	1948	3078	2388	3518	2828	3779	3089	2372	1567	33.9		
	S06	2301	1850	2779	2328	3512	3052	4245	3785	4969	4517	5702	5247	6434	5974	7162	6707	7594	7143	1567	1027	43.4		
	S08	2009	1407	2487	1877	3220	2609	3953	3342	4677	4075	5410	4804	6142	5532	6875	6265	7311	6700	2089	1372	44.8		
	S10			2023	1338	2928	2167	3661	2900	4393	3632	5118	4356	5850	5089	6583	5822	7019	6257	2611	1708	46.1		
1200	S12							3369	2457	4101	3189	4831	3914	5558	4647	6291	5379	6727	5815	3124	2053	47.6		
	S14 A							3809	2738	4538	3471	5266	4204	5999	4937	6434	5372	6647	5585	2399	148.9			
	S06	3301	2558	3994	3251	5048	4305	6111	5361	7165	6421	8223	7475	9281	8530	10338	9586	10966	10214	2399	1513	66.4		
	S08	2876	1885	3562	2570	4621	3630	5677	4686	6739	5740	7793	6798	8849	7856	9905	8913	10532	9541	3195	2027	68.6		
	S10	2443	1204	3136	1889	4190	2948	5246	4004	6306	5067	7360	6121	8422	7176	9480	8232	10108	8860	3992	2531	71.0		
1750	S12					3762	2269	4819	3326	5872	4385	6931	5439	7989	6495	9046	7550	9674	8178	4788	3036	73.2		
	S14 A							3067	1922	5447	3704	6501	4763	7557	5820	8612	6878	9240	7505	5585	3540	75.6		
	S06	4222	3089	5162	4021	6594	5461	8035	6903	9476	8335	10909	9776	12350	11217	13786	12653	14639	13506	3726	2390	86.6		
	S08	3540	2027	4480	2967	5922	4406	7357	5840	8795	7282	10236	8719	11671	10155	13110	11597	13966	12543	4974	3186	90.4		
	S10			3513	1816	5240	3346	6681	4787	8114	6228	9555	7661	10996	9102	12432	10538	13285	11391	6213	3992	94.1		
2100	S12							6000	3728	7441	5166	8879	6608	10315	8049	11756	9485	12612	10338	7461	4788	97.9		
	S14 A							3750	1998	6759	4113	8201	5551	9642	6987	11078	8428	11078	9284	8700	5585	101.4		
	S06	6213	4505	7655	5947	9866	8158	12076	10368	14287	12579	16498	14790	18709	17001	20919	19211	22233	20525	5107	3399	132.9		
	S08	5080	2797	6522	4239	8733	6449	10944	8660	13154	10871	15365	13082	17576	15292	19787	17503	21100	18817	6815	4532	137.8		
	S10			4994	2430	7600	4750	9811	6961	12021	9171	14232	11382	16443	13593	18654	15804	19967	17117	8514	5664	141.5		
2500	S12							8678	5253	10889	7463	13099	9674	15310	11885	17521	14096	18834	15409	10214	6797	146.2		
	S14 A							5339	2705	9756	5764	11966	7975	14177	10185	16388	12396	17701	13710	11922	7930	149.9		
	S06	11497	9249	13791	11543	17318	15070	20841	18593	24362	22114	27883	25635	31406	29158	34929	32681	37023	34775	7134	4496	189.4		
	S08	10223	7222	12525	9524	16043	13045	19567	16569	23088	20087	26614	23613	30131	27138	33654	30658	35748	32748	9515	5992	197.1		
	S10			10355	6978	14771	11025	18295	14548	21813	18069	25339	21590	28864	25113	32383	28636	34474	30730	11895	7488	204.8		
4000	S12							13497	9001	17021	12525	20547	16051	24065	19569	27590	23093	31114	26613	33208	28703	14276	8984	212.5
	S14 A							15746	10504	19273	14024	22790	17546	26315	21068	29840	24591	31933	26685	16657	10479	220.2		
	S06	15604	11170	18806	14364	23705	19271	28608	24168	32033	27776	36508	30592	41411	35497	47334	37817	44856	38934	15905	8948	363.1		
	S08	13710	7789	16904	10991	21802	15890	26706	20787	31606	25694	36508	30592	41411	35497	47334	37817	44856	38934	15905	8948	363.1		
	S10					19901	12509	24806	17412	29704	22313	34610	27211	39508	32116	41831	34436	42953	35553	19879	11187	376.5		
4000	S12							22903	14031	27801	18932	32707	24834	37605	28737	39928	31060	41050	32181	23862	13418	390.0		
	S14 A									25906	15551	30804	20453	35709	25356	38029	27679	39147	28800	27836	15657	403.2		

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