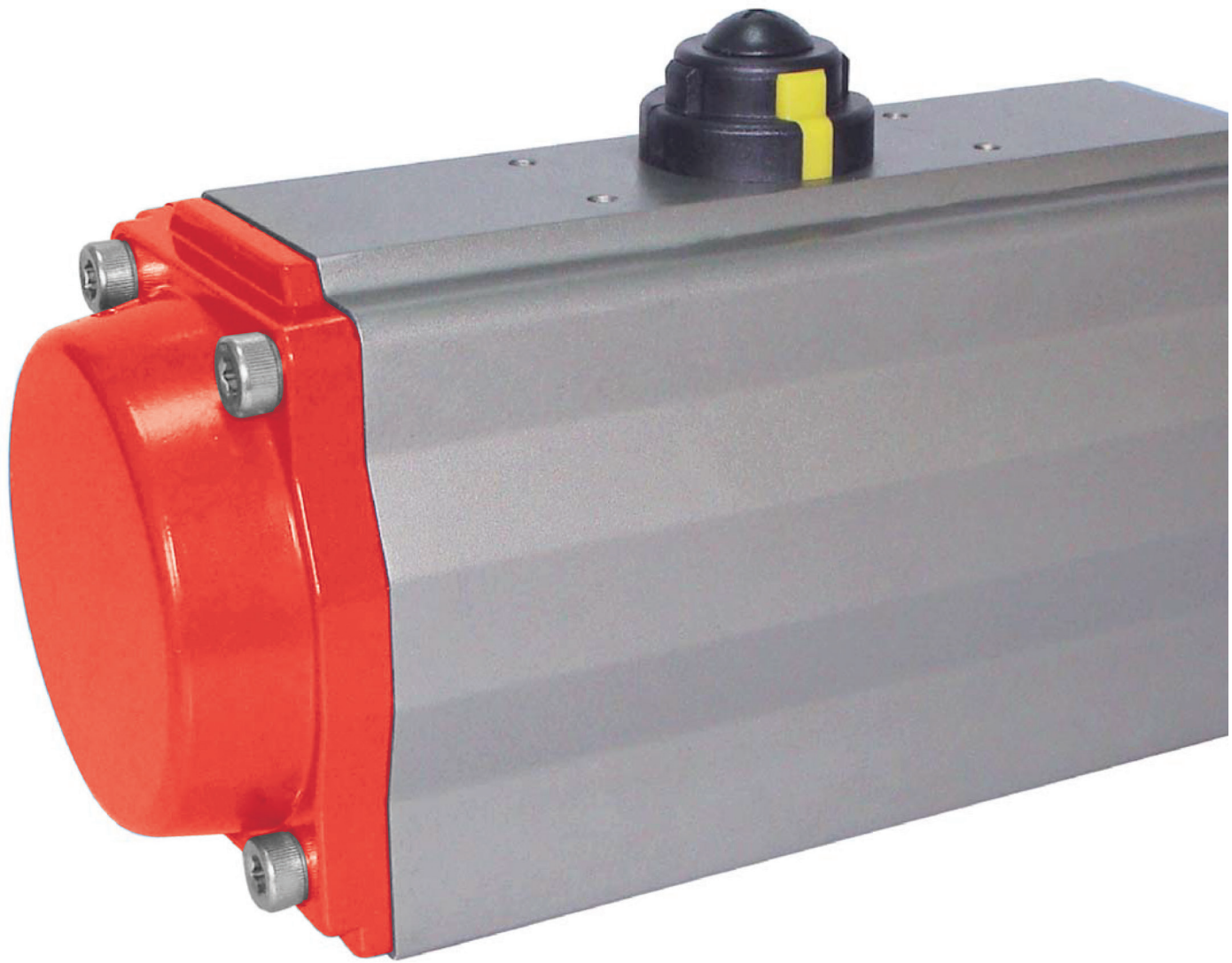




FNW[®]

PNEUMATIC RACK & PINION

**AD-SERIES
ACTUATOR**



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Head Office

12500 Jefferson Avenue
Newport News, VA 23602
Phone: (757) 969-4974

FNW.COM

SIZING INFORMATION & HOW TO ORDER

Ordering Figure Number Chart



Type
 FNW AD-Series

Style
 DA = Double Acting
 SR = Spring Return

AD

75

SR

11

N

1

2

3

4

5

Body Dia.
(in mm)

32	140
40	160
52	190
63	210
75	240
83	270
92	300
105	350
125	400

Spring Quantity

DA = Blank

5	111
6	2
7	13
8	14
9	15
10	16

Seals

N = NBR (standard)
 LN = Low Temp NBR
 V = Viton

Maintenance

1. It is recommended that periodic checks be performed to make sure that all fasteners remain tight.
2. The FNW AD-Series Actuator is supplied already lubricated with EP-1 grease.
3. Under certain working conditions (heavy-duty, non-compatible operating media or normal operating conditions), internal seals should be checked periodically and replaced when necessary.
4. On spring return actuators, spring fatigue may set in requiring the replacement of springs. Always replace springs in new full sets.

Note

If an actuator is properly assembled and used, it will be maintenance-free as it has been lubricated enough to last a normal working life under normal working conditions.

Should it be necessary to replace the seals, we suggest returning to Ferguson Enterprises, LLC.

FNW provides seal replacement kits with instructions to customers on request.

DESIGN FEATURES

The FNW AD-Series Pneumatic Actuator is an aluminum bodied rack and pinion actuator available in double acting or spring return options. This design allows for consistent torque outputs from a compact package. With standard Namur VDI/VDE 3845 and ISO5211 mounting pads, making mounting to valves or actuator accessories an ease. A standard 90-degree rotation ± 5 degrees allows for fine adjustment on quarter turn valves (other travel rotations available).



Indicator

Position indicator with NAMUR is convenient for mounting accessories such as limit switch box, positioner etc.

Pinion

The pinion is high-precision CNC machined, made from nickel alloy steel and fully conforming to the latest standards of ISO5211, DIN3337 and NAMUR. The dimensions can be customized and stainless steel is available.

Actuator Body

According to the different requirements, the extruded aluminum alloy ASTM6005 body can be treated with hard anodized (standard), powder polyester paint, PTFE or nickel plated.

End Caps

Die-casting aluminum powder polyester paint (standard), PTFE or nickel-plated.

High-Performance Cartridge Springs

Preloaded coated springs are made from high quality material that is resistant to corrosion and has longer life cycle. They can be removed safely and conveniently for different torque requirement or air pressure by changing quantity of springs.

Travel Adjustment

The two independent external travel stop adjustment bolts can adjust at both open and close directions easily and precisely.

Pistons

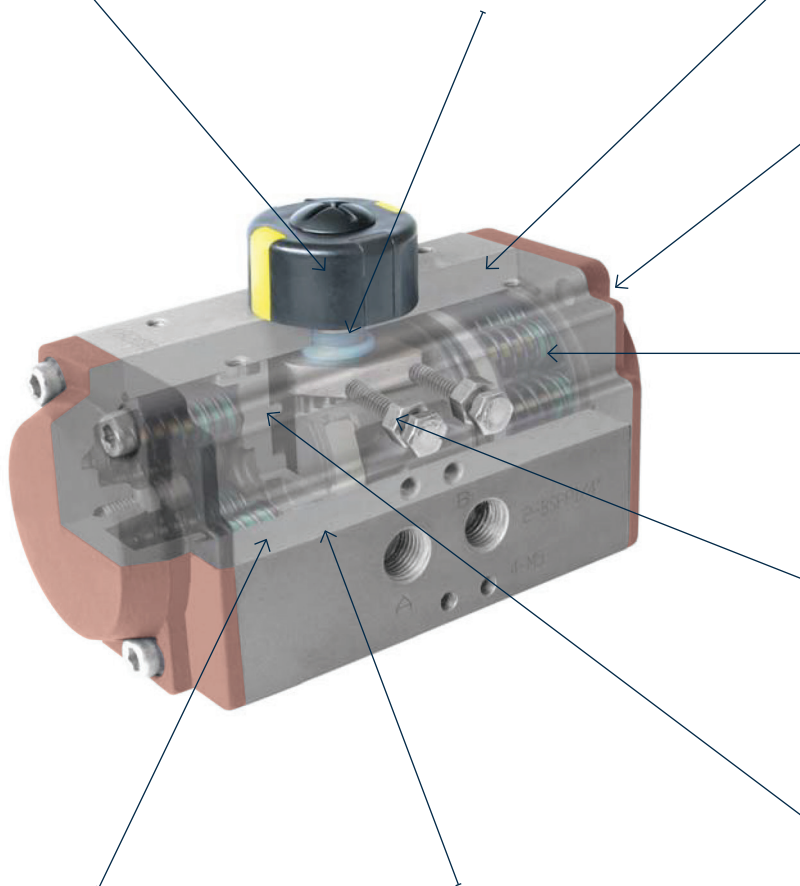
The twin rack pistons are made from die-casting aluminum treated with hard anodized or made from cast steel with galvanization. Symmetrical mounting position, long life and fast operation. Reverse rotation by simply inverting the pistons.

O-Rings

NBR rubber O-rings provide trouble-free operation at standard temperature ranges. For high temperature, Viton™ or silicone is used. For low temperature, NBR is used.

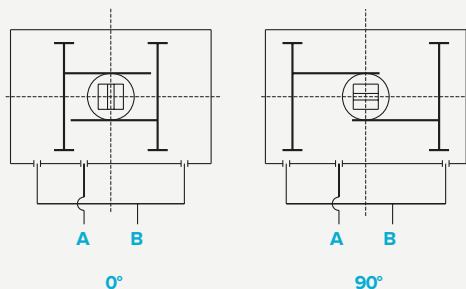
Bearings & Guides

Made from low-friction, long life compound material that avoids direct contact between metals. Maintenance and replacement are easy and convenient.



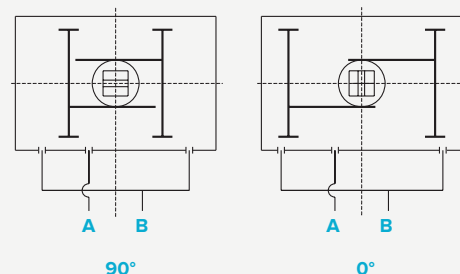
FNW AD-SERIES ACTUATOR OPERATING PRINCIPLE

Double Acting



STANDARD ROTATION (CCW)

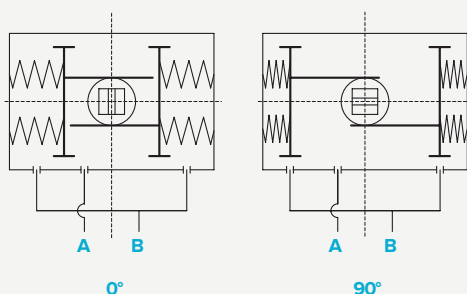
Air to port "A" forces the pistons outwards, causing the pinion to turn counterclockwise while the air is being exhausted from port "B". Air to port "B" forces the pistons inwards, causing the pinion to turn clockwise while the air is being exhausted from port "A".



REVERSE ROTATION (CW)

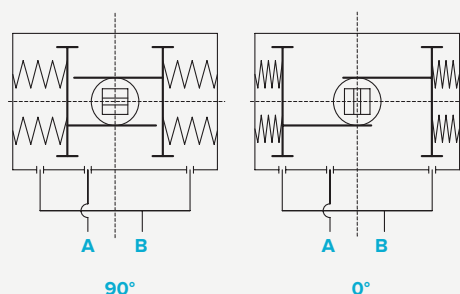
Air to port "A" forces the pistons outwards, causing the pinion to turn clockwise while the air is being exhausted from port "B". Air to port "B" forces the pistons inwards, causing the pinion to turn counterclockwise while the air is being exhausted from port "A".

Spring Return



STANDARD ROTATION

Air to port "A" forces the pistons outwards, causing the springs to compress. The pinion turns counterclockwise while air is being exhausted from port "B". Loss of air pressure on port "A" combined with the stored energy of the springs, forces the pistons inwards. The pinion turns clockwise while air is being exhausted from port "A".



REVERSE ROTATION

Air to port "A" forces the pistons outwards, causing the springs to compress. The pinion turns clockwise while air is being exhausted from port "B". Loss of air pressure on port "A" combined with the stored energy of the springs, forces the pistons inwards. The pinion turns counterclockwise while air is being exhausted from port "A".

Operating Conditions

1. OPERATING MEDIA

Dry or lubricated air, or non-corrosive gas. The maximum particle diameter must be less than 30 m.

2. AIR SUPPLY PRESSURE

The minimum supply pressure is 30 psi. The maximum supply pressure is 115 psi.

3. OPERATING TEMPERATURE

Standard (NBR O-ring): -20°C ~ +80°C
Low temp (L NBR O-ring): -40°C ~ +80°C
High temp (Viton™ O-ring): -15°C ~ 150°C

4. TRAVEL ADJUSTMENT

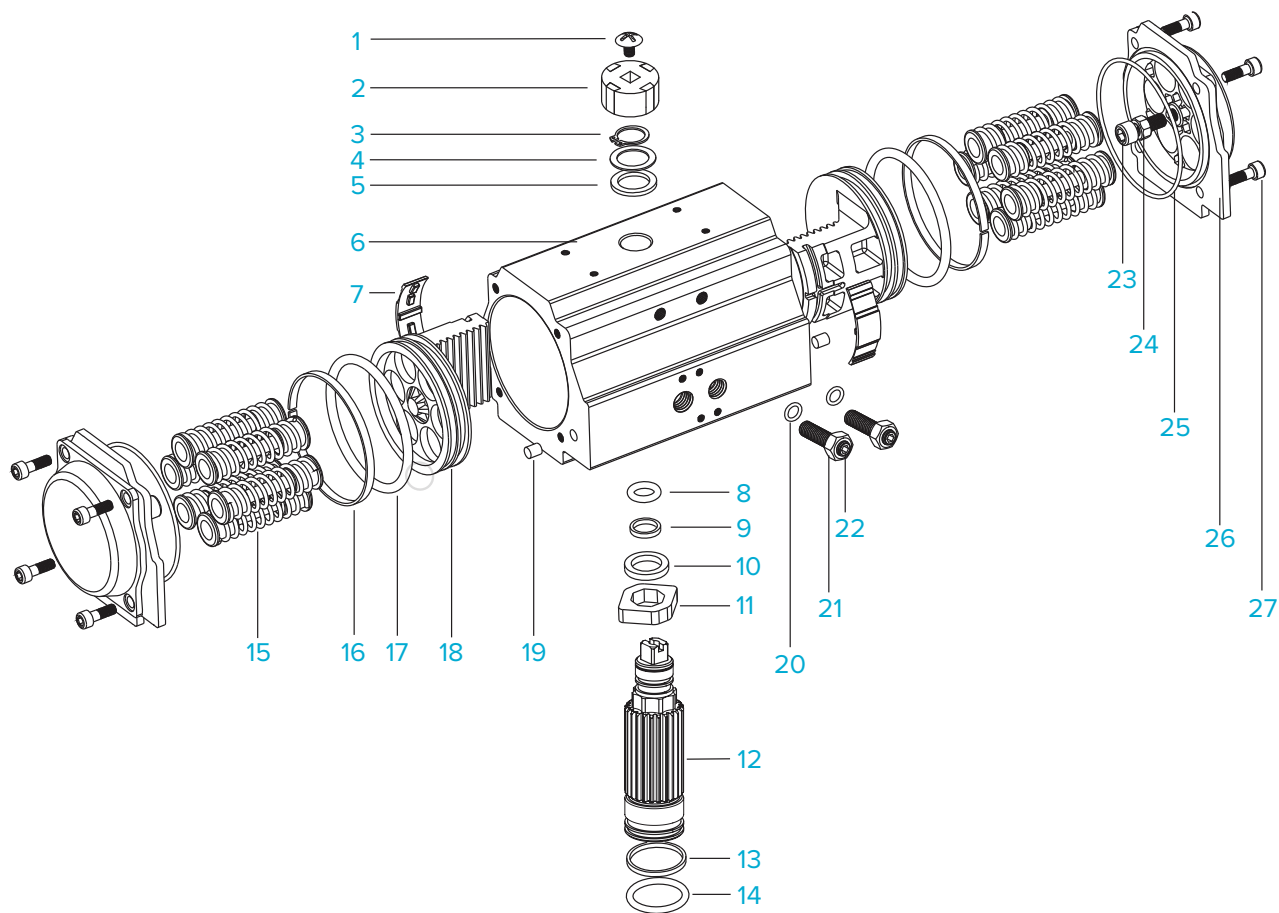
Have adjustment range of $\pm 5^\circ$ for the rotation at 0° and 90°.

5. APPLICATION

Suitable for both indoor and outdoor.

PARTS & MATERIALS

FNW AD-Series Pnuematic Rack & Pinion Actuator



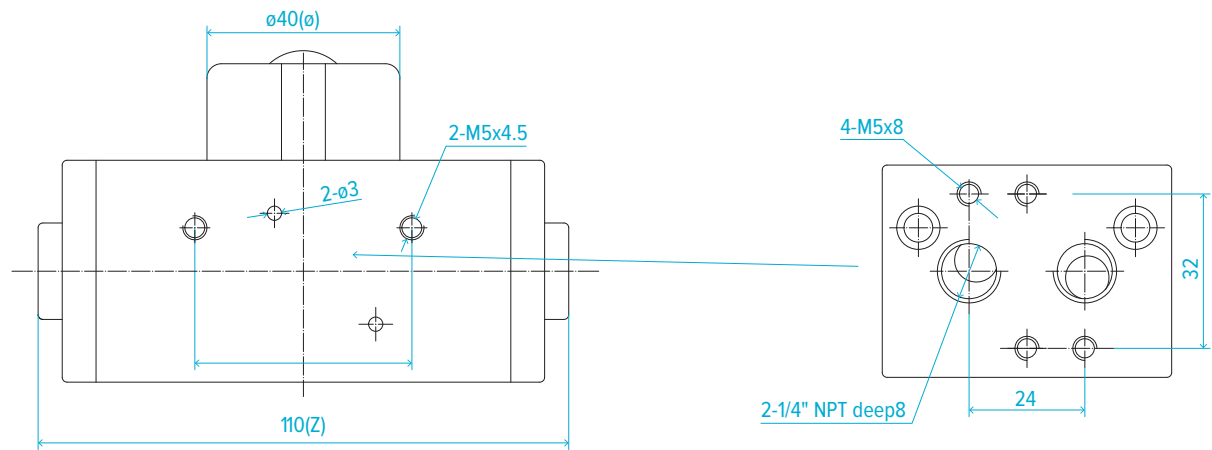
Item	Description	Qty	Material
1	Indicator screw	1	Stainless steel (304)
2	Indicator	1	Plastic (ABS)
3	Circlip	1	Stainless steel (304)
4	Thrust washer	1	Stainless steel (304)
5	Outside washer	1	Polyoxymethylene
6	Body	1	Extruded aluminum alloy (6005-T5)
7	Guide (Piston)	2	Nylon 66+30% glass fiber
8	O-ring (Pinion top)	1	NBR
9	Bearing (Pinion top)	1	Polyoxymethylene
10	Inside washer	1	Polyoxymethylene
11	Cam	1	Extruded low carbon alloy steel
12	Pinion	1	Extruded low carbon alloy steel
13	Bearing (Pinion bottom)	1	Polyoxymethylene
14	O-ring (Pinion bottom)	1	NBR

Item	Description	Qty	Material
15	Spring	0-12	Piano spring steel
16	Bearing (Piston)	2	Polyoxymethylene
17	O-ring (Piston)	2	NBR
18	Piston	2	Cast aluminum/casting (A380)
19	Plug	2	NBR
20	O-ring (Adjust screw)	2	NBR
21	Nut (Adjust screw)	2	Stainless steel (304)
22	Adjust screw	2	Stainless steel (304)
23	Stop screw	2	Stainless steel (304)
24	Nut (Stop screw)	2	Stainless steel (304)
25	O-ring (End cap)	2	NBR
26	End cap	2	Cast aluminum (A380)
27	Cap screw	8	Stainless steel (304)

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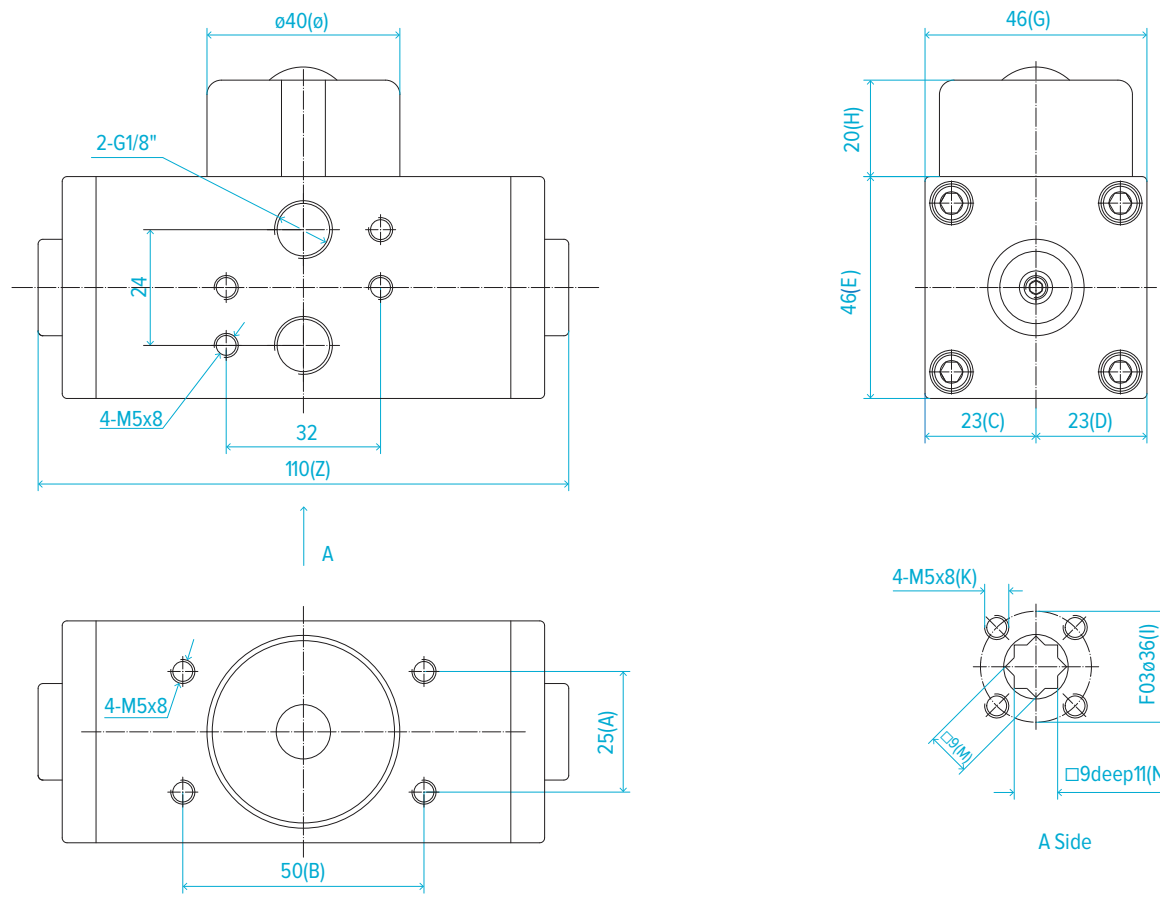
DIMENSIONS

FNW Pnuematic Rack & Pinion Actuator
MODEL AD-32
(Dimensions in mm)



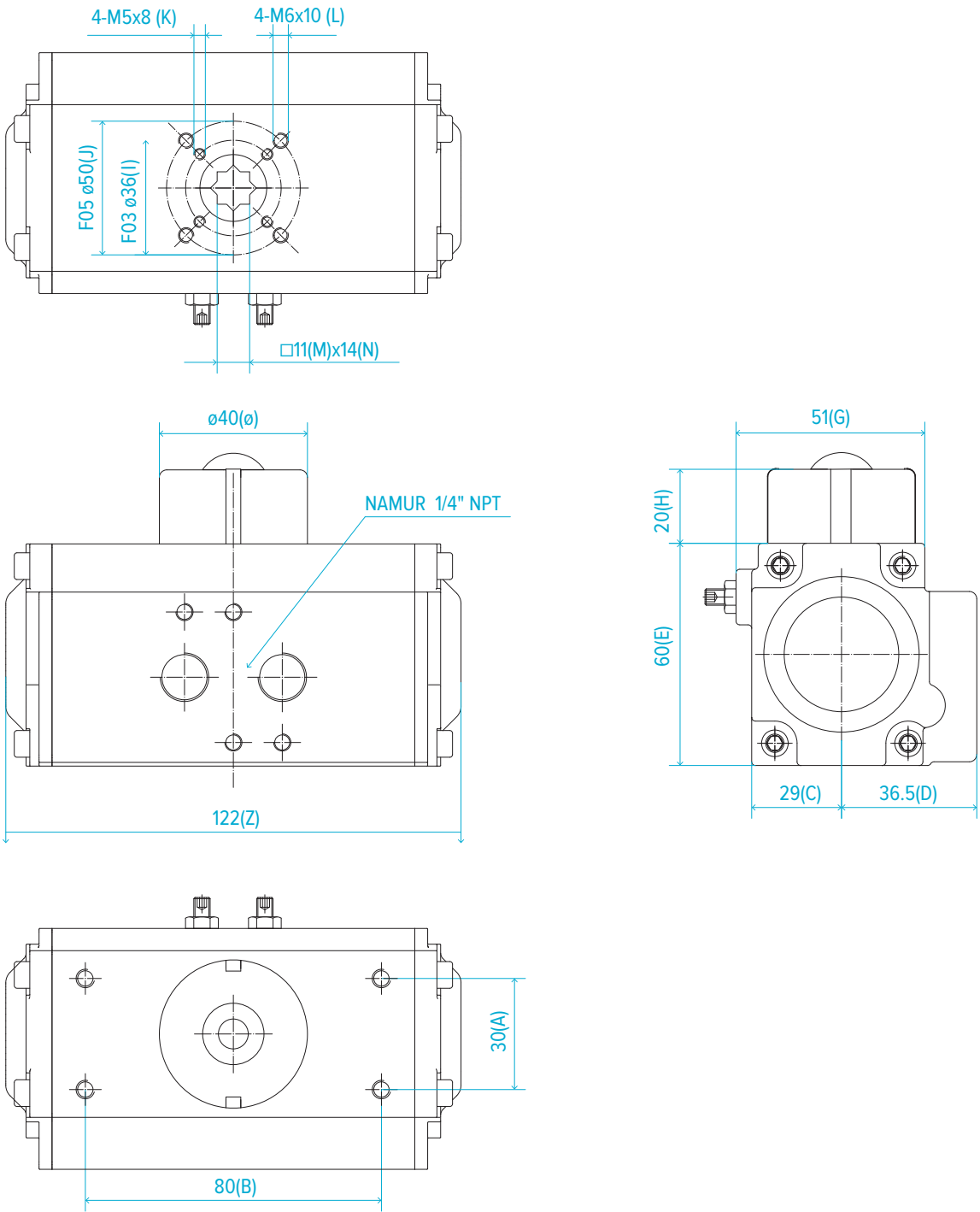
Special interface for 1/4" adaptor

G1/4" Namur adaptor



DIMENSIONS

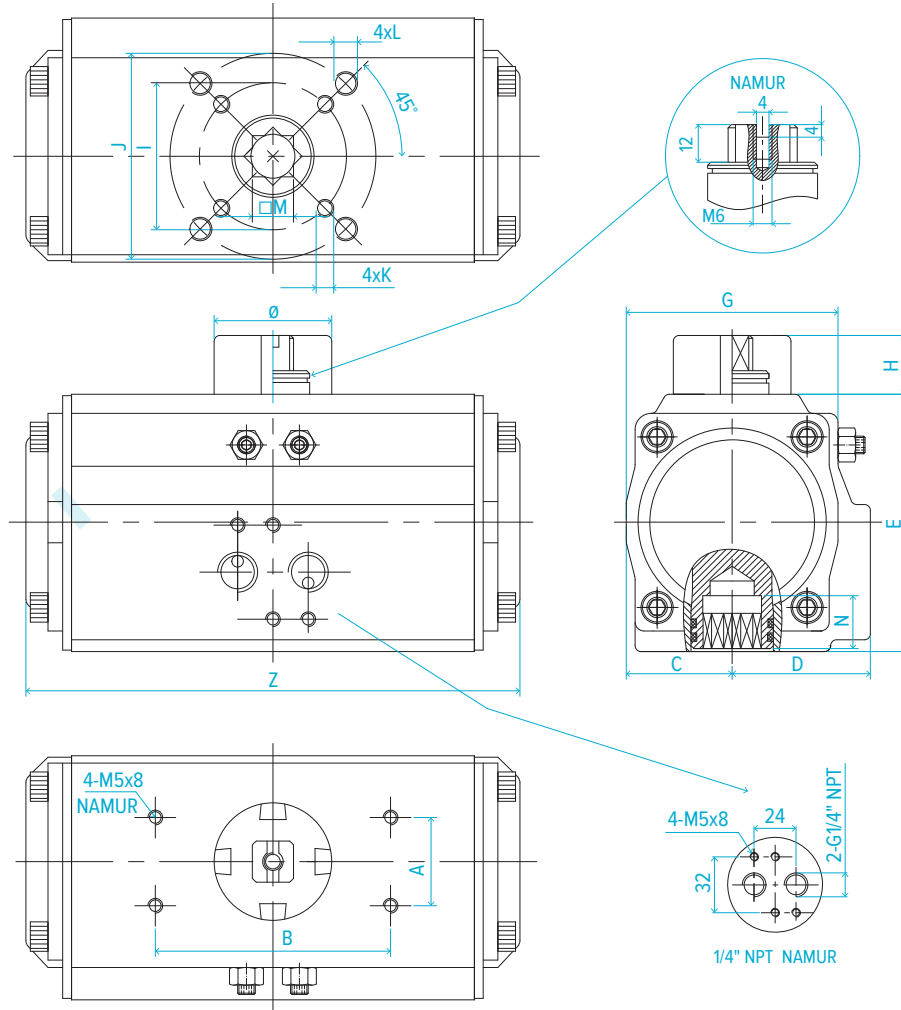
FNW Pnuematic Rack & Pinion Actuator
MODEL AD-40
(Dimensions in mm)



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DIMENSIONS

FNW Pneumatic Rack & Pinion Actuator MODEL AD-52 THRU AD-210 (Dimensions in mm)

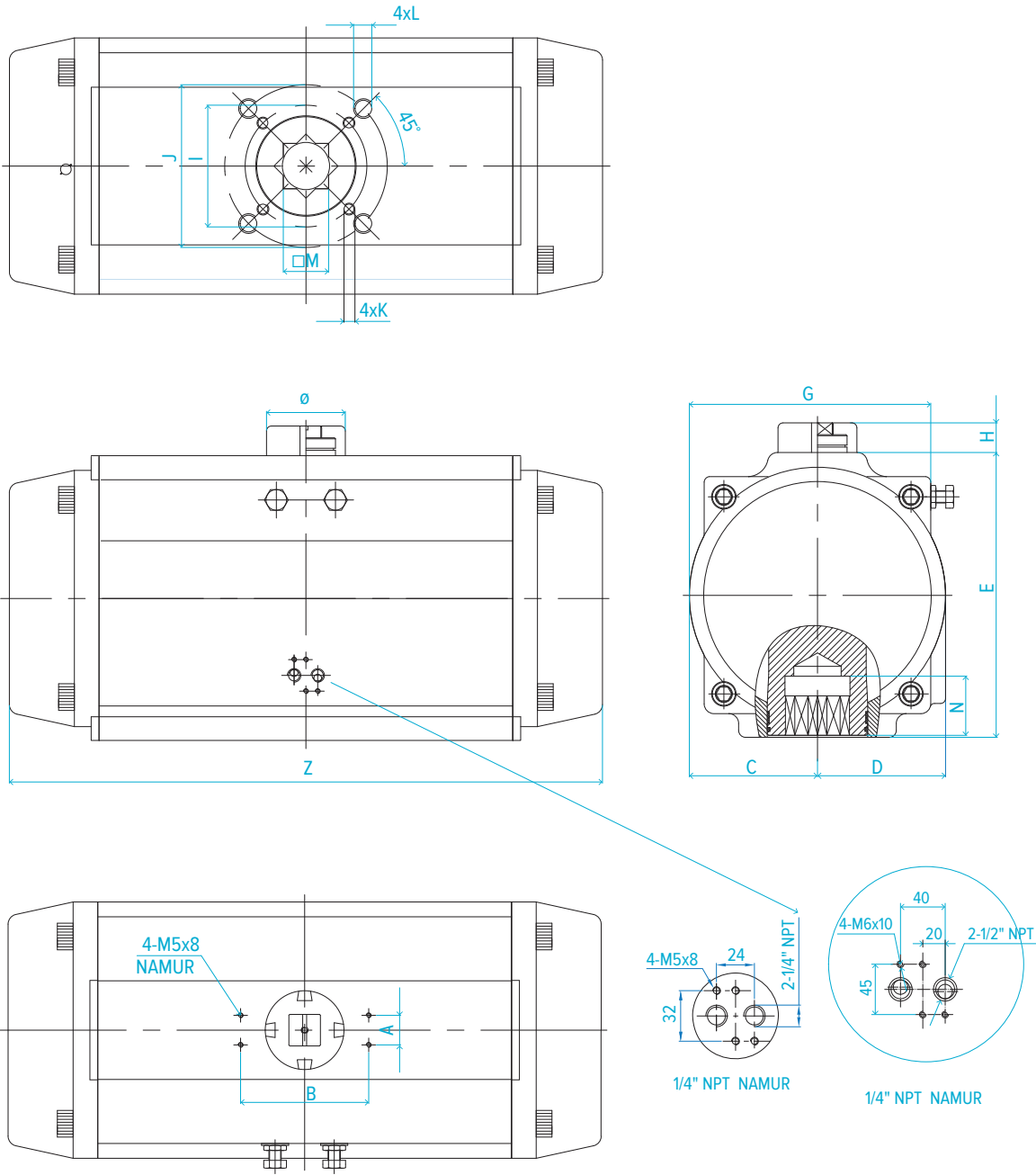


Model	A	B	C	D	E	G	H	I	J	K	L	M	N	Z	Ø	Air Connection
AD-32	25	50	23	23	46	46	20	Φ36		M5x8		9	11	110*	40	G1/8" or 1/4" (1/8" or 1/4" NPT)
AD-40	30	80	29	36.5	60	51	20	Φ36	Φ50	M5x8	M6x10	11	14	122	40	G1/4" (1/4" NPT)
AD-52	30	80	30	41.5	72	65	20	Φ36	Φ50	M5x8	M6x10	11	14	147	40	G1/4" (1/4" NPT)
AD-63	30	80	36	47	87.5	72	20	Φ50	Φ70	M6x10	M8x13	14	18	168	40	G1/4" (1/4" NPT)
AD-75	30	80	42	53	99.5	81	20	Φ50	Φ70	M6x10	M8x13	14	18	185	40	G1/4" (1/4" NPT)
AD-83	30	80	46	57	108.8	88	20	Φ50	Φ70	M6x10	M8x13	17	21	211	40	G1/4" (1/4" NPT)
AD-92	30	80	50	61	116.5	98	20	Φ50	Φ70	M6x10	M8x13	17	21	262	40	G1/4" (1/4" NPT)
AD-105	30	80	57.5	64	133	109.5	20	Φ70	Φ102	M8x13	M10x16	22	26	270	40	G1/4" (1/4" NPT)
AD-125	30	80	67.5	74.5	155	127.5	20	Φ70	Φ102	M8x13	M10x16	22	26	303	55	G1/4" (1/4" NPT)
AD-140	30	80	75	77	172	137.5	20	Φ102	Φ125	M10x16	M12x20	27	31	394	55	G1/4" (1/4" NPT)
AD-160	30	80	87	87	197	158	20	Φ102	Φ125	M10x16	M12x20	27	31	458	55	G1/4" (1/4" NPT)
AD-190	30	130	103	103	230	189	30		Φ140		M16x25	36	40	528	80	G1/4" (1/4" NPT)
AD-210	30	130	114	114	255	211	30		Φ140		M16x25	36	40	532	80	G1/4" (1/4" NPT)

*This size can be shortened to 100mm

DIMENSIONS

FNW Pnuematic Rack & Pinion Actuator
MODEL AD-240 THRU AD-300
(Dimensions in mm)

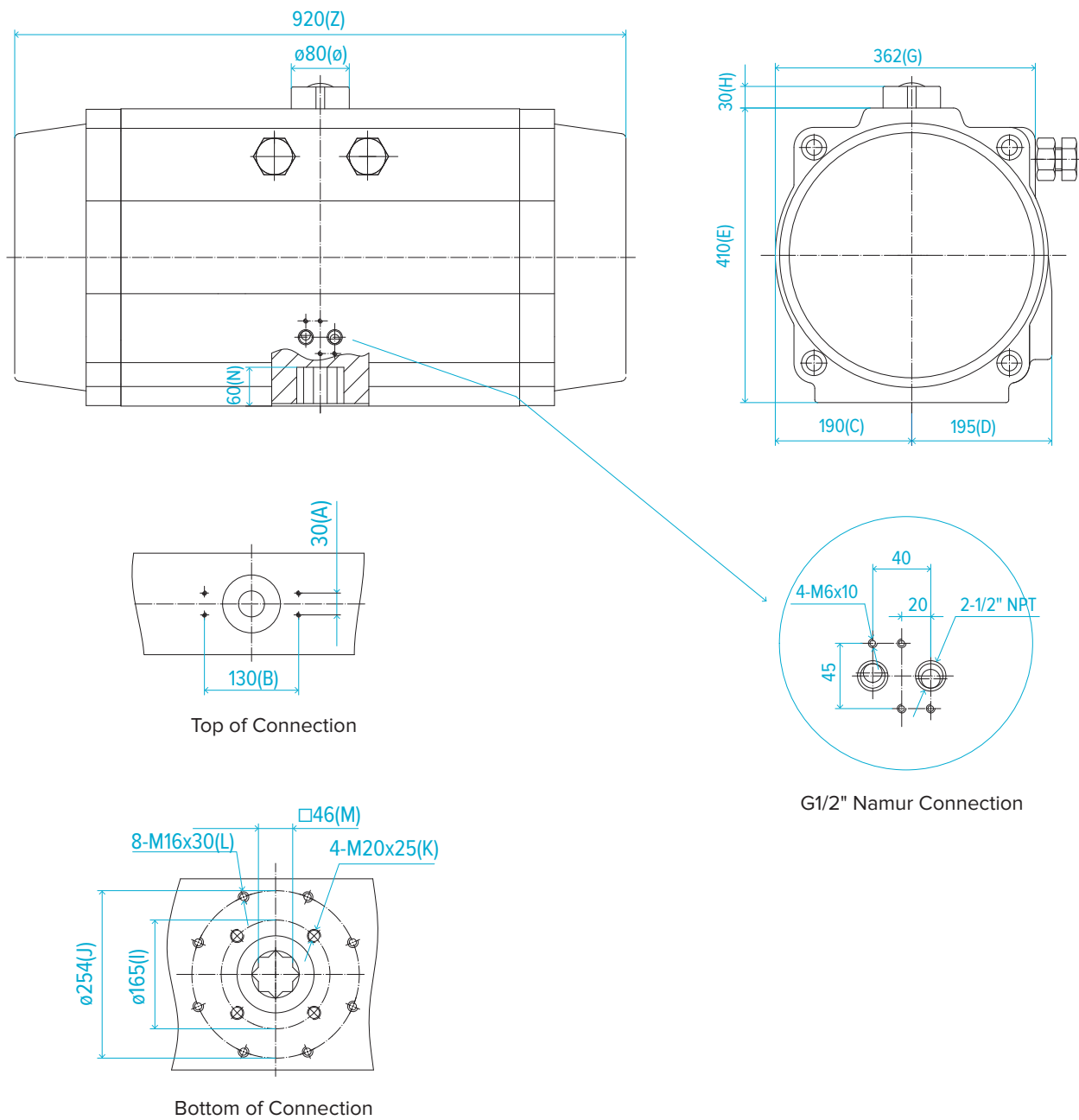


Model	A	B	C	D	E	G	H	I	J	K	L	M	N	Z	Ø	Air Connection
AD-240	30	130	130	130	289	241	30		Φ165		M20x25	46	50	602	80	G1/4" (1/4" NPT)
AD-270	30	130	147	147	326	272	30		Φ165		M20x25	46	50	722	80	G1/2" (1/2" NPT)
AD-300	30	130	165	170	350	315	30	Φ165		M20x25		46	60	760	80	G1/2" (1/2" NPT)

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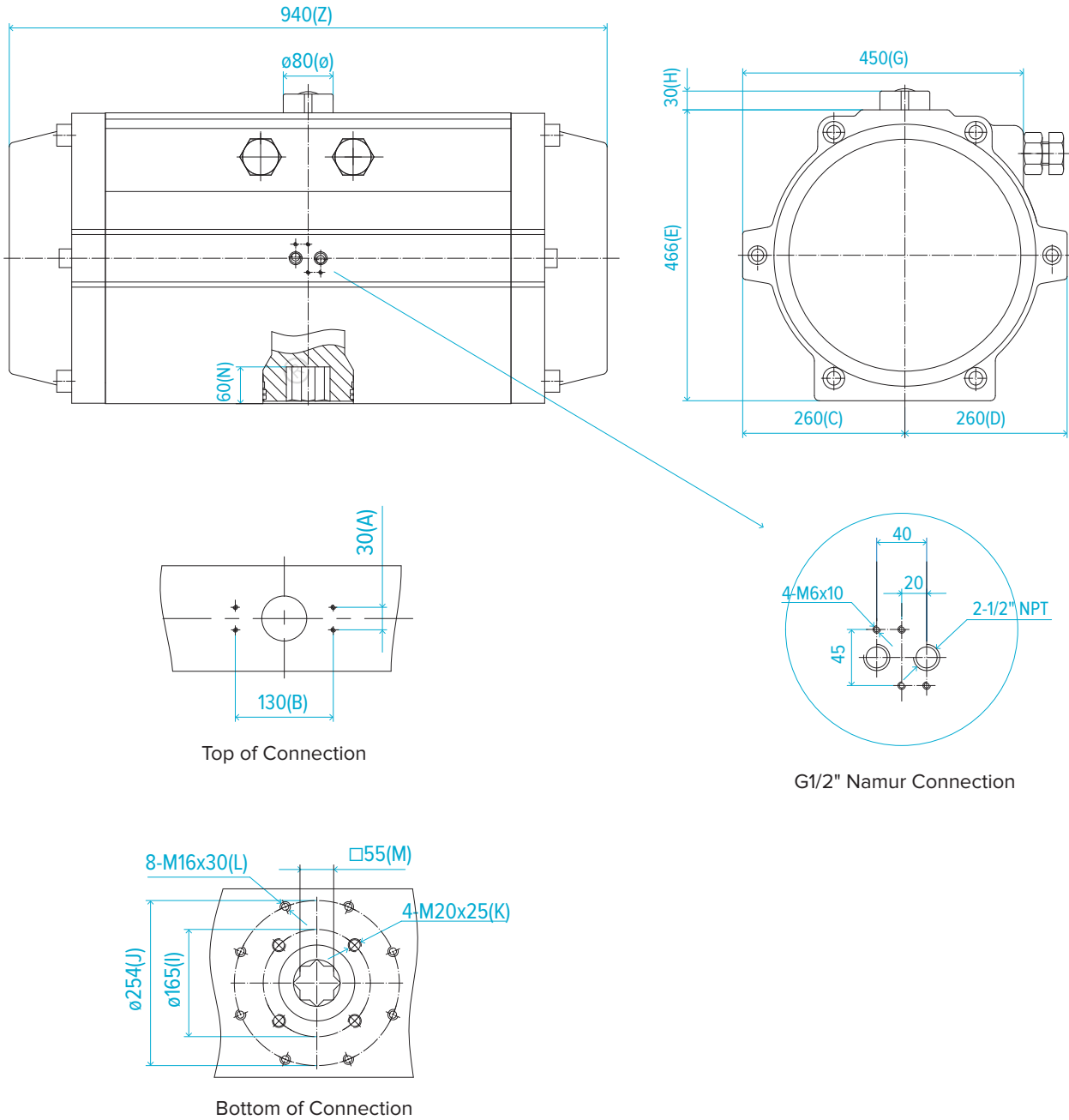
DIMENSIONS

FNW Pnuematic Rack & Pinion Actuator
MODEL AD-350
(Dimensions in mm)



DIMENSIONS

FNW Pneumatic Rack & Pinion Actuator
MODEL AD-400
(Dimensions in mm)



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TORQUE SHEET

Spring Return Actuator (in inch-lbs)

Double Acting	Spring Quality	Air Pressure (psi)											
		30		40		60		80		100		Spring Output	
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
AD52SR	5	33	16	55	37							54	38
	6	27	5	47	24	99	77					65	44
	7			39	12	89	66					76	52
	8					84	54	134	106			87	59
	9					75	43	126	95	177	146	98	67
	10					67	32	118	84	170	136	109	75
	11					60	21	111	73	162	124	120	82
	12							103	63	155	106	130	90
AD63SR	5	71	38	111	75	204	136					92	60
	6	58	19	98	55	191	151					110	72
	7			83	35	178	132					129	84
	8					166	113	259	207	349	299	147	96
	9					153	95	246	189	337	280	166	108
	10					141	75	234	170	325	262	184	121
	11							222	152	313	244	202	132
	12							210	134	301	225	221	145
AD75SR	5	87	51	141	103	270	235					128	92
	6	67	24	121	74	250	207					153	112
	7			101	46	231	182					179	130
	8					211	154	340	284	464	409	205	149
	9					192	129	321	258	446	385	230	168
	10					173	101	302	232	428	359	256	186
	11							284	206	409	334	282	205
	12							265	181	391	308	307	223
AD83SR	5	142	76	231	157	428	346					203	139
	6	113	34	196	112	400	321					244	168
	7			166	67	370	279					284	195
	8					342	236	540	438	736	635	325	223
	9					313	195	512	397	708	595	366	252
	10					283	151	484	356	680	555	407	279
	11							456	316	653	515	447	307
	12							427	275	625	475	488	336
AD92SR	5	199	97	323	214	611	511					304	206
	6	156	35	277	148	569	448					365	248
	7			232	80	526	385					426	289
	8					484	322	770	613	1052	898	487	330
	9					441	260	728	552	1011	837	548	372
	10					399	196	687	491	970	777	608	413
	11							645	430	929	718	669	455
	12							604	369	888	658	730	496
AD105SR	5	315	154	498	326	921	759					435	279
	6	257	64	436	229	862	670					523	336
	7			374	133	804	580					609	392
	8					747	489	1164	915	1576	1331	696	447
	9					689	400	1108	827	1521	1245	784	503
	10					630	305	1052	1052	1466	1156	870	560
	11							996	652	1410	1073	958	615
	12							940	565	1355	990	1045	671

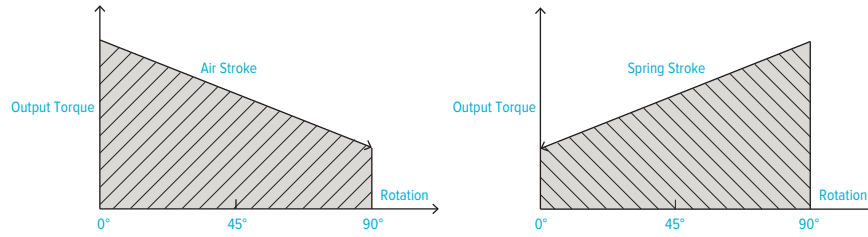
TORQUE SHEET

Spring Return Actuator (in inch-lbs)

Double Acting	Spring Quality	Air Pressure (psi)											
		30		40		60		80		100		Spring Output	
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
AD125SR	5	442	195	712	458	1354	1116					699	460
	6	341	57	615	302	1263	979					831	557
	7			507	146	1162	823					973	646
	8					1071	686	1703	1339	2336	1970	1106	743
	9					979	540	1614	1197	2240	1831	1247	831
	10					878	402	1517	1055	2153	1691	1389	929
	11							1428	913	2057	1552	1531	1017
	12							1339	780	1970	1421	1663	1106
AD140SR	5	778	384	1249	830	2343	1950					1141	761
	6	622	146	1083	576	2188	1712					1371	911
	7			917	322	2032	1483					1601	1062
	8					1876	1245	2958	2346	4028	3417	1823	1212
	9					1712	1007	2799	2115	3871	3199	2053	1371
	10					1556	769	2648	1884	3723	2964	2283	1522
	11							2497	1653	3566	2737	2513	1672
	12							2346	1423	3417	2519	2743	1823
AD160SR	5	1153	531	1884	1210	3588	2966					1840	1239
	6	897	146	1611	810	3341	2581					2212	1486
	7			1337	400	3076	2197					2584	1734
	8					2828	1821	4514	3537	6173	5214	2947	1973
	9					2563	1437	4265	3164	5920	4847	3318	2221
	10					2316	1052	4017	2792	5684	4481	3690	2469
	11							3768	2428	5440	4124	4053	2716
	12							3520	2055	5196	3757	4425	2964
AD190SR	5	2065	1067	3242	2167	5960	4962					2734	1770
	6	1699	499	2851	1572	5593	4394					3283	2124
	7			2460	966	5227	3826					3832	2478
	8					4861	3259	7549	5996	10192	8675	4380	2832
	9					4495	2700	7194	5445	9852	8135	4929	3186
	10					4128	2133	6839	4904	9503	7594	5469	3540
	11							6484	4353	9155	7053	6018	3894
	12							6129	3803	8806	6521	6566	4248
AD210SR	5	2352	1391	3808	2783	7223	6262					3363	2433
	6	1849	695	3271	2040	6719	5566					4035	2920
	7			2734	1298	6216	4870					4708	3407
	8					5712	4174	9081	7590	12398	10933	5380	3894
	9					5209	3478	8593	6915	11919	10271	6053	4380
	10					4705	2783	8105	6241	11439	9608	6726	4867
	11							7617	5566	10960	8945	7398	5354
	12							7128	4891	10480	8283	8071	5841
AD240SR	5	3291	1972	5390	3994	10336	9017					4902	3628
	6	2558	956	4589	2900	9585	8001					5885	4336
	7			3789	1826	8825	6994					6858	5088
	8					8084	5978	12962	10920	17761	15755	7841	5805
	9					7324	4962	12225	9926	17037	14787	8832	6540
	10					6573	3945	11497	8949	16322	13828	9805	7265
	11							10769	7964	15616	12825	10788	7991
	12							10041	6978	14892	11884	11770	8717

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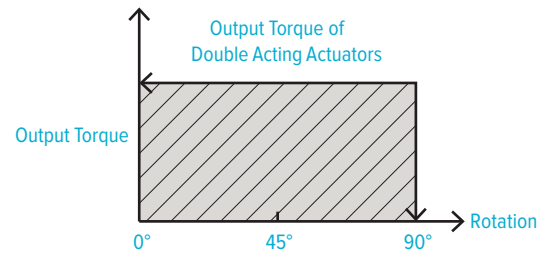
TORQUE SHEET



Spring Return Actuator (in inch-lbs)

Double Acting	Spring Quality	Air Pressure (psi)											
		30		40		60		80		100		Spring Output	
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
AD270SR	5	5580	3502	8818	6591	16287	14208					6964	4956
	6	4555	2074	7714	5068	15261	12780					8345	5947
	7			6630	3525	14245	11334					9743	6929
	8					13220	9896	20609	17387	27892	24727	11133	7920
	9					12194	8450	19615	15984	26916	23350	12531	8911
	10					11169	7022	18621	14599	25930	21981	13912	9903
	11							17626	13196	24954	20612	15310	10894
	12							16641	11802	23986	19243	16699	11876
AD300SR	5	7287	4257	10712	7119							9389	6460
	6	5950	2316	9130	4824							11266	7752
	7			7538	2519	17541	12835					13142	9044
	8					16058	10674					15018	10336
	9					14575	8514	25594	20312			16894	11628
	10					13091	6362	24298	18421	32426	26018	18779	12921
	11							23002	16539	31005	23960	20655	14213
	12							21706	14657	29593	21902	22532	15505
AD350SR	5	10180	5337	15165	9413							15062	10381
	6	8029	2215	12617	5722							18080	12460
	7			10068	2031	25130	17596					21089	14514
	8					22741	14135					24107	16611
	9					20361	10665	37029	28577			27116	18691
	10					17971	7205	34951	25550	46996	36742	30134	20762
	11							32865	22531	44720	33446	33143	22841
	12							30779	19504	42453	30142	36161	24921
AD400SR	5	12661	3442	19804	8486							25488	16576
	6			16952	4013							29134	18585
	7					35586	21935					32771	20903
	8					32912	17751					36417	23222
	9					30239	13567	53861	39310			40055	25549
	10					27575	9384	51535	35653	68838	51513	43701	27868
	11							49200	32004	66292	47519	47338	30196
	12							46874	28346	63754	43535	50984	32514
	13							44539	24697	61208	39550	54622	34842
	14							42213	21040	58662	35565	58268	37161
	15												
	16												

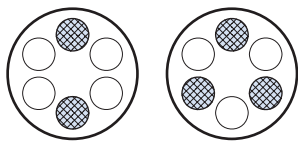
TORQUE SHEET



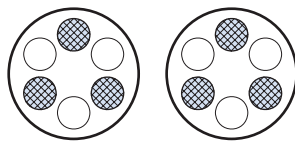
Double Acting Actuator (in inch-lbs)

Model	Air Pressure (psi)					
	30	40	60	80	100	115
AD32DA	28	37	55	74	93	107
AD40DA	44	58	87	116	145	167
AD52DA	73	97	146	195	243	280
AD63DA	133	178	269	356	445	512
AD75DA	184	245	367	490	612	704
AD83DA	287	382	574	765	956	1100
AD92DA	413	551	826	1101	1377	1583
AD105DA	605	807	1210	1614	2017	2320
AD125DA	918	1224	1836	2448	3060	3519
AD140DA	1565	2087	3130	4171	5217	6000
AD160DA	2435	3246	4869	6492	8116	9333
AD190DA	3896	5194	7791	10388	12985	14933
AD210DA	4896	6492	9739	12985	16231	18666
AD240DA	7043	9391	14086	18782	23477	26999
AD270DA	10705	14274	21411	28548	35785	41037
AD300DA	13967	18623	27934	37246	46557	53541
AD350DA	20912	27883	41825	55766	69708	80164
AD400DA	29809	39745	59618	79491	99364	114268

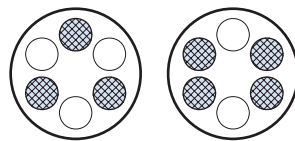
SPRING OPTIONS FOR SPRING RETURN ACTUATORS



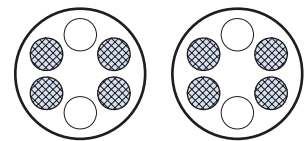
5 Springs



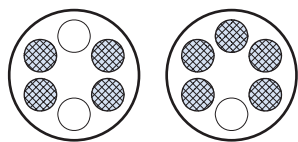
6 Springs



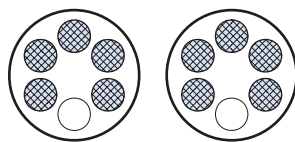
7 Springs



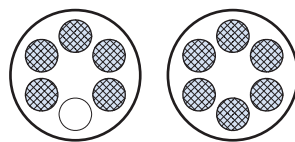
8 Springs



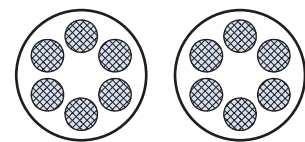
9 Springs



10 Springs



11 Springs



12 Springs

The data provided in this document is subject to change without notice.

MEASUREMENTS

FNW AD-Series Pneumatic Rack & Pinion Actuator

WEIGHT (in kilograms)

Model	32	40	52	63	75	83	92	105	125	140	160	190	210	240	270	300	350	400
Double Acting	0.7	1	1.4	2	2.7	3.1	4.6	6.8	8.9	13	20	31	47	67	97	110	186	289
Spring Return	–	–	1.5	2.1	2.9	3.6	5.2	6.9	10.1	15	24	35	55	80	118	130	23	360

AIR CONSUMPTION

Air volume opening & closing (in liters)

Model	32	40	52	63	75	83	92	105	125	140	160	190	210	240	270	300	350	400
Air Volume (Opening)	0.04	0.06	0.12	0.21	0.30	0.43	0.65	0.97	1.53	2.47	3.78	6.06	7.57	11.10	15.67	24.44	36.89	58.05
Air Volume (Closing)	0.04	0.07	0.15	0.23	0.36	0.53	0.89	1.16	1.75	3.10	4.83	7.49	9.37	14.25	21.63	28.73	46.66	55.14

NOTE: Air consumption depends on air supply.

ACTUATOR STROKE SPEED* (in seconds)

Double Acting			Spring Return														
Size	0°–90°	90°–0°	Size	Spring Quality													
				3 + 3		3 + 4		4 + 4		4 + 5		5 + 5		5 + 6		6 + 6	
				0°–90°	90°–0	0°–90°	90°–0	0°–90°	90°–0	0°–90°	90°–0	0°–90°	90°–0	0°–90°	90°–0	0°–90°	90°–0
32DA	0.5	0.4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
40DA	0.5	0.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
52DA	0.6	0.53	52SR	2.46	0.48	2.48	0.46	2.5	0.44	2.52	0.42	2.54	0.4	2.56	0.38	2.58	0.36
63DA	0.66	0.58	63SR	2.54	0.56	2.56	0.54	2.58	0.52	2.6	0.5	2.62	0.48	2.64	0.46	2.66	0.44
75DA	0.72	0.64	65SR	2.62	0.64	2.64	0.62	2.66	0.6	2.68	0.58	2.7	0.56	2.72	0.54	2.74	0.52
83DA	0.83	0.73	83SR	2.71	0.73	2.73	0.71	2.75	0.69	2.77	0.67	2.79	0.65	2.81	0.63	2.83	0.61
92DA	1	0.86	92SR	2.89	0.86	2.91	0.84	2.93	0.82	2.95	0.8	2.97	0.78	2.99	0.76	3.01	0.74
105DA	1.35	1.3	105SR	3.14	0.91	3.16	0.89	3.18	0.87	3.2	0.85	3.22	0.83	3.24	0.81	3.26	0.79
125DA	2.4	1.79	125SR	4.24	1.2	4.26	1.18	4.28	1.16	4.3	1.14	4.32	1.12	4.34	1.10	4.36	1.08
140DA	2.5	2.1	140SR	4.4	1.35	4.4	1.33	4.62	1.31	4.64	1.29	4.66	1.27	4.68	1.25	4.68	1.22
160DA	3.93	2.6	160SR	4.74	1.77	4.76	1.75	4.78	1.73	4.8	1.71	4.82	1.69	4.82	1.67	4.84	1.65
190DA	4.55	3.45	190SR	5.75	3.7	5.77	3.5	5.75	3.48	5.77	3.46	5.79	3.44	5.8	3.42	5.83	3.4
210DA	5.5	4.35	210SR	8.25	4.8	8.4	4.6	8.42	4.58	8.44	4.56	8.46	4.54	8.48	4.52	8.5	4.5
240DA	8.4	8.33	240SR	16.2	5.14	16.4	5.12	16.42	5.1	16.44	4.9	16.6	4.98	16.8	4.86	17	4.84
270DA	10.9	8.53	270SR	17.6	6.28	17.8	6.26	17.6	6.24	17.8	6.2	18	6.18	18.2	6.16	18.4	6.14
300DA	15	14.9	300SR	24	13.2	24.5	13	24.4	12.8	24.3	12.6	24.5	12.58	24.7	12.56	24.9	12.54
350DA	23.7	18.6	350SR	31	17.3	31.5	17	31.3	16.8	31	16.6	31.2	16.58	31.4	16.56	31.6	16.54
400DA	31	29	400SR	45	27	51	27	51.3	26.8	51.5	26.8	51.7	26.6	51.9	26.4	52.1	26.2

NOTE: Air Pressure = 80 psi

FNW[®]