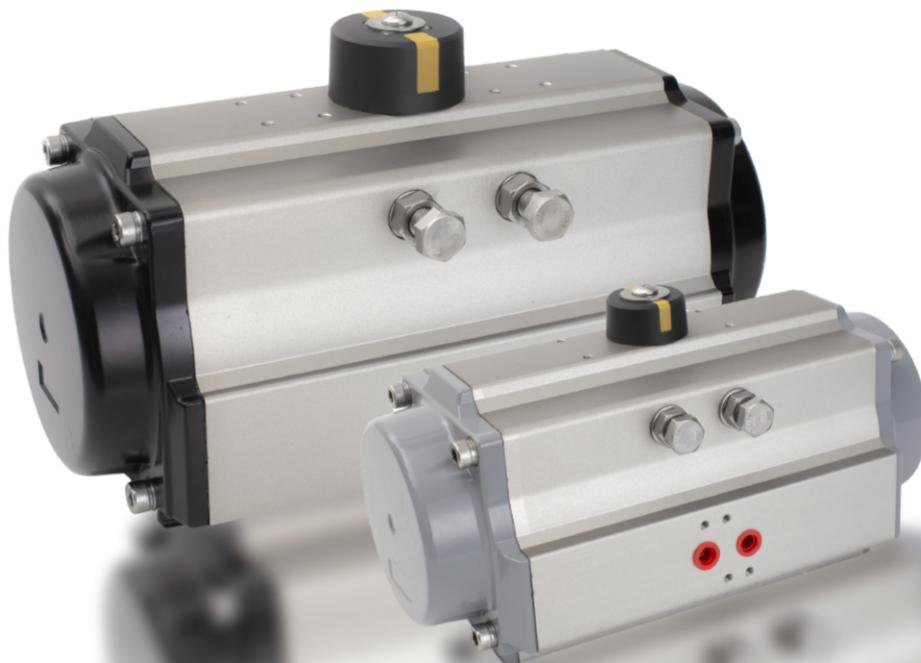




UG New Series Pneumatic Actuator



High performance and high reliability
Fully compliant with the latest international standards and regulations
More applicable to a wide range of specifications and higher cost performance
Compact design is better suited for a variety of industrial applications



Design and Structure

Design

UG new series pneumatic actuator applies innovative rack and pinion drive mechanism, integrating the latest pneumatic actuator technology and materials. The series is designed as per extensive field mounting and application experience with following product strengths:

- ☆ High performance and high reliability
- ☆ Fully compliant with the latest international standards and regulations
- ☆ More applicable to a wide range of specifications and higher cost performance
- ☆ Compact design is better suited for a variety of industrial applications

Structure

1. Integrate and compact design utilizes the same body and end caps for the same double acting and spring return actuator models. It also benefits less spare parts inventory and is greatly convenient for customers' field application by adding or removing spring cartridges.

2. Fully compliant with the latest international standards including ISO5211, DIN3337 and VDI/VDE3845, etc. Fully compliant with NUMAR standard and interchangeability, convenient to replace or mount accessories including solenoid valves, limit switches.

3. Apply rack and pinion with double pistons in advantages of compact structure, high cycle life, and swift operation. The piston tooth surface processed by CNC machining center performs with optimized gearing efficiency and transmission precision, as well as stable operation and reliable performance. It is convenient to switch rotation direction only by inverting the pistons for symmetrical mounting position design.

4. Dual independent travel stoppers can be conveniently and precisely implement $\pm 5^\circ$ -adjustments externally in two directions, allowing actuators in alignment with valve on both the opening and closing phases of the stroke.

7. Rack and pinion tooth in high precision is designed in outstanding tooth profile ratio to realize less clearance, accurate drive and high output power.

5. The composite bearings and guides on pinion and piston ensure precise operation, low friction and high life cycle, preventing output shaft from fractures.

8. Extruded aluminum body is processed with corrosion resistance internally and externally. Fine ground cylinder surface lead to low friction coefficient and high cycle life.

6. The dedicated sealing ring fitted between body and cylinder avoids the failure caused by suction of rubber plug initially which enhances security, leakproofness and longer service life.

9. Modularized preload spring cartridges with special coating is applicable to a wide range of scenarios with high security and anti-corrosion.

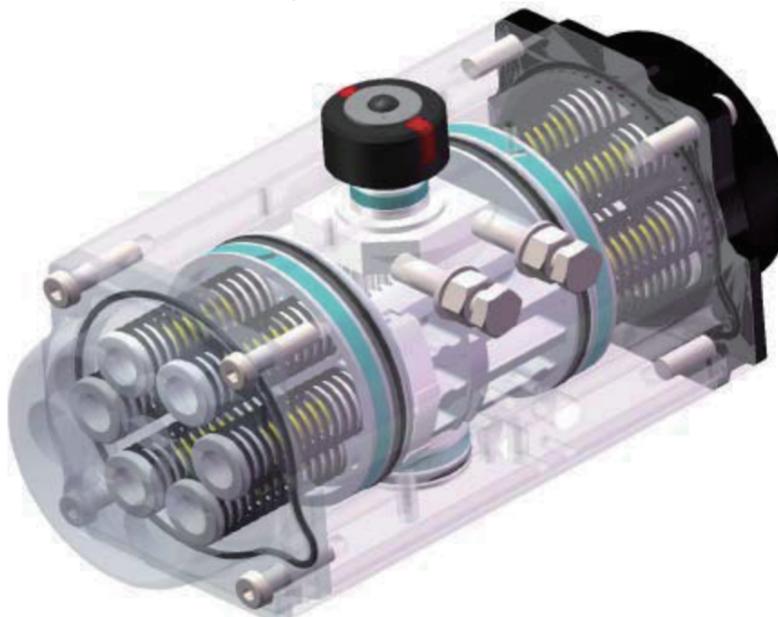
10. High-quality bearings are of reliable sealing, low friction, high cycle life and wide range of application temperature.

11. All of the internal and external fasteners are made in long term corrosion-resistant stainless steel.

12. Multifunctional position indicator with slot in compliance with NAMUR standard offers simplicity and clarity for visual indication. Connection to a variety of standard and common sensors can be easily realized.

13. Under normal operating conditions, the safety factor of 20%-30% increase of valve torque should be considered when selecting double-acting actuators.

14. Under normal operating conditions, the safety factor of 20%-30% increase of valve torque should be considered when selecting single-acting actuators.



Product Selection Range、Accessories and Quality Management

Selection Range :

- A. Actuators in all specifications are supplied with 304 or 316 stainless steel output shafts as requested.
- B. For applications under extremely high and low temperature, all models are supplied with corresponding FPM or silicone rubber O-ring with special lubricant.
- C. Except for the octagon output drive at the bottom, the customized design as per customers' specific requirements is also available. Please contact UG for details.

Quality Management :

- UG new series pneumatic actuator production process is fully compliant with ISO9001.
- 100% of all units are factory pressure and leak tested and externally marked with dedicated serial number for traceability.
- 100% of all units are individually boxed with suitable cardboard carton for protection and appropriately labeled in detail for identification.

Accessories Options:

Bracket、Connector、Solenoid Valve、Limit Switch Box、Proximity Sensor、Gear Box(Manual Gear Override)、Positioner、Complete set of square output shaft sleeves in reduced sizes .

High-Quality Products and Patent Qualification Certificates

Various Qualifications And Certifications Verified By International Authorities

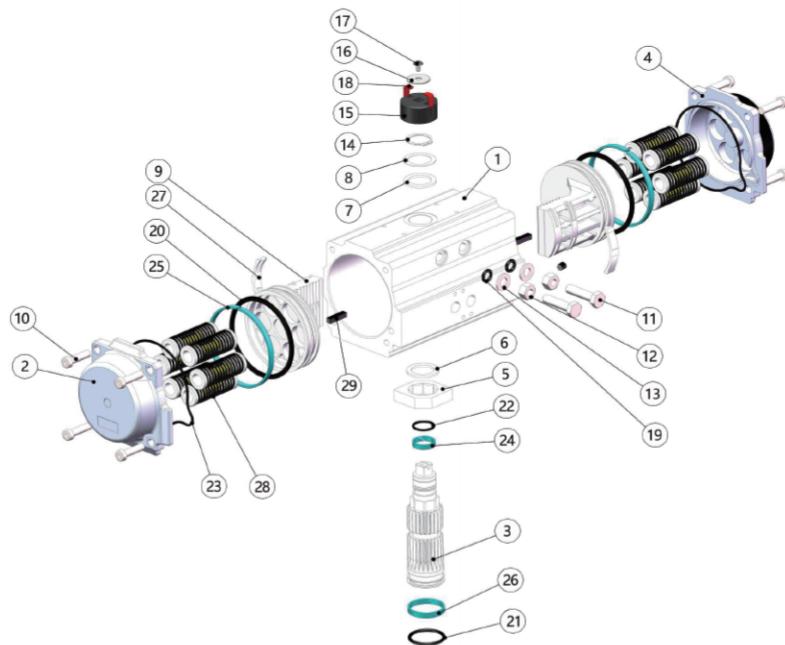
- All UG products have been professionally designed with optimization.
- 100% of all units are factory pressure and leak tested.
- 100% of all units are externally marked with dedicated serial number for traceability.
- 100% of all units are individually boxed with suitable cardboard carton for protection and appropriately labeled in detail for identification.



Numerous Invention Patent Certifications



Part and Material



Item No.	Description	Materials		Qty.	Item No.	Description		Materials		Qty.	Item No.	Description		Materials		Qty.
1	Body	Aluminum Alloy		1	12	Travel Stop Nut		Stainless Steel		2	23	O-ring (End Cap)		NBR		2
2	Left End Cap	Aluminum Alloy		1	13	Travel Stop Washer		Stainless Steel		2	24	Upper Pinion Bearing		Advanced Polymer		1
3	Pinion	45# Steel		1	14	Retaining Ring		Spring Steel		1	25	Piston Wear Bearing		Advanced Polymer		2
4	Right End Cap	Aluminum Alloy		1	15	Indicator		Advanced Polymer		1	26	Lower Pinion Bearing		Advanced Polymer		1
5	OCTI-CAM	45# Steel		1	16	Indicator Thrust Bearing		Stainless Steel		1	27	Piston Skate		Advanced Polymer		2
6	Upper Pinion Thrust Bearing	Advanced Polymer		1	17	Flat Cross Bolt		Stainless Steel		1	28	Spring		Spring Steel		0-12
7	Thrust Bearing	Advanced Polymer		1	18	Color Code		Advanced Polymer		2	29	Guide Key		Advanced Polymer		2
8	Thrust Washer	Stainless Steel		1	19	O-ring (Travel Stop)		NBR		2						
9	Travel Stop Piston	Aluminum Alloy		2	20	O-ring (Piston)		NBR		2						
10	End Cap Bolt	Stainless Steel		8	21	O-ring (Lower Pinion)		NBR		1						
11	Travel Stop	Stainless Steel		2	22	O-ring (Upper Pinion)		NBR		1						

Technical Data (Metric Unit)

Model	UG032		UG050		UG065		UG075		UG085		UG095		UG110		UG125		UG140		UG160		UG190		UG210		UG240		UG270		UG300		UG350		UG400																																		
	DN	SN																																																																	
Diameter(mm)	32		50		65		75		85		95		105		125		140		160		190		210		240		270		300		350		400																																		
Air Volume Opening(L)	0.03		0.1		0.22		0.25		0.45		0.95		1.07		1.47		2.13		3.89		6.16		8.22		12.26		15.80		17.35		27.65		42.81																																		
Air Volume Closing(L)	0.04		0.15		0.26		0.41		0.61		0.98		1.24		1.86		3.08		4.7		8.59		10.95		16.01		18.80		24.83		44.10		62.05																																		
Opening Time(S)	0.3		0.3		0.9		0.4		0.9		0.9		1.4		0.9		1.4		1.3		2.4		1.3		2.8		2.0		4.8		2.2		2.4		2.9		3.4		3.2		3.8		1		4.4		5.0		5.0		6.0		6.2		7.4		7.5		9.6								
Closing Time(S)	0.4		0.4		0.7		0.4		0.8		0.4		0.9		0.9		1.2		1.0		1.4		1.0		1.6		1.4		2.4		1.4		3.0		2.4		4.9		2.6		3.0		3.8		4.1		3.7		4.0		4.9		5.5		6.0		6.8		7.2		8.4		8.5		10.6		
Weight(kg)	0.47		0.59		1.08		1.2		1.91		2.15		2.41		2.8		3.32		3.95		4.98		5.8		6.53		7.95		10.24		12.1		15.1		15.93		21.3		25.6		29.3		33.81		37.7		48.43		54.2		77.76		82.0		90.6		108		135.6		146.7		188.1		220.5		283.5

Notice: (A) The operation time above are measured in following experimental conditions:

1.For model 32-160

(1)Room temperature

(2)Actuator stroke 90°

(5)Neutral clean air

(6)Air supply pressure 5.5 bar

(3)Solenoid valve with orifice of 4 mm and a flow capacity Qn400L/min

(7)Actuator without external resistance load

(4)Inside pipe diameter 6 mm

2.For model 190-400

(1)Room temperature

(2)Actuator stroke 90°

(5)Neutral clean air

(6)Air supply pressure 5.5 bar

(3)Solenoid valve with orifice of 12 mm and a flow capacity Qn5100L/min

(7)Actuator without external resistance load

(4)Inside pipe diameter 8 mm

Cautions: obviously on the field applications when one or more parameters are different from above, the operation time will be different.Air consumption rest with air supply, open/switch stroke, air volume and action cycle times. Expressions:

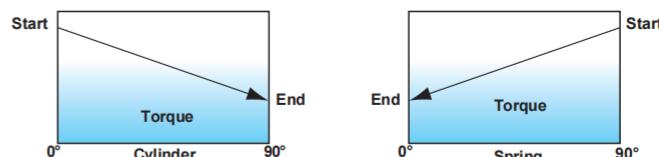
$$\text{L/min} = \text{Air volume(opening air volume+closing air volume)} \times \frac{[\text{Air Supply(Kpa)}+101.3]}{101.3} \times \text{Action times}/\text{min}$$

Torque-Metric Torque Output

Double Acting Torque Output Diagram



Spring Return Torque Output Diagram



Double Acting Actuator Torque (N.m)

±8%

Model	Air Supply (Unit: Bar)											
	2.5	3	3.5	4	4.5	5	5.5	6	7	8		
UG032DN	2.9	3.4	4	4.6	5.3	5.9	6.5	7.1	8.3	9.5		
UG040DN	5.7	6.9	8.1	9.4	10.6	11.8	13	14.3	16.7	19.2		
UG050DN	9.4	11.3	13.2	15.1	17	18.8	20.7	22.6	26.4	30.2		
UG065DN	19.1	22.9	26.7	30.6	34.4	38.2	42	45.9	53.5	61.2		
UG075DN	25.2	30.2	35.3	40.3	45.3	50.4	55.4	60.4	70.5	80.6		
UG085DN	40.8	49	57.2	65.4	73.5	81.7	89.9	98.1	114.4	130.7		
UG095DN	61.2	73.5	85.7	100	110.2	122.5	134.7	147	171.5	196		
UG110DN	83.1	99.7	116.4	133	149.6	166.2	182.9	199.5	232.7	266		
UG125DN	132.5	159	185.5	212	238.6	265.1	291.6	318.1	371.1	424.1		
UG140DN	219.3	263.2	307.1	351	394.9	438.7	482.6	526.4	614.2	702		
UG160DN	334.2	401.1	468	534.8	601.7	668.5	735.4	802.2	935.9	1069.6		
UG190DN	505	606	707	808	909	1010	1111	1212	1414	1616.1		
UG210DN	658	789.7	921.3	1052.9	1184.5	1316.1	1447.8	1579.4	1842.6	2105.8		
UG240DN	967	1160.3	1353.7	1547.1	1740.5	1934	2127.3	2320.7	2707.5	3094.3		
UG270DN	1468.6	1762.3	2056	2349.7	2643.4	2937.2	3230.9	3524.6	4112	4699.5		
UG300DN	1678.6	2029.4	2379.3	2729.2	3079.1	342.9	3778.9	4128.8	4828.5	5528.3		
UG350DN	2492.5	3011.8	3531.1	4050.4	4569.6	5088.9	5608.2	6127.5	7166	8204.6		
UG400DN	3798.1	4589.4	5380.7	6172	6963.3	7754.5	8545.8	9337.1	10919.7	12502.2		

Spring Return Actuator Torque (N.m)

±8%

Model	Air Supply (Unit: Bar)																					
	2.5	3	3.5	4	4.5	5	5.5	6	7	8					Spring Return							
UG050S05N	5.8	3.7	7.7	5.6	9.6	7.5	11.5	9.4	13.4	11.3	15.2	13.1	17.1	15.0	19.0	16.9	22.8	20.7	26.6	24.5	5.7	3.6
UG050S06N	5.1	2.6	7.0	4.5	8.9	6.4	10.8	8.3	12.7	10.2	14.5	12.0	16.4	13.9	18.3	15.8	22.1	19.6	25.9	23.4	6.8	4.3
UG050S07N			6.3	1.4	8.2	5.2	10.1	7.1	12.0	9.0	13.8	10.8	15.7	12.7	17.6	14.6	21.4	18.4	25.2	22.2	8.0	5.0
UG050S08N					7.4	4.1	9.3	6.0	11.2	7.9	13.0	9.7	14.9	11.6	16.8	13.5	20.6	17.3	24.4	21.1	9.1	5.8
UG050S09N						8.6	4.8	10.5	6.7	12.3	8.5	14.2	10.4	16.1	12.3	19.9	16.1	23.7	19.9	23.0	10.3	6.5
UG050S10N							9.8	5.6	11.6	7.4	13.5	9.3	15.4	11.2	19.2	15.0	23.0	18.8	21.4	11.4	7.2	
UG050S11N									10.9	6.3	12.8	8.2	14.7	10.1	18.5	13.9	22.3	17.7	12.5	7.9		
UG050S12N										12.1	7.0	14.0	8.9	17.8	12.7	21.6	16.5	21.3	17.7	13.7		
UG065S05N	11.9	7.9	15.7	11.7	19.5	15.5	23.4	19.4	27.2	23.2	31.0	27.0	34.8	30.8	38.7	34.7	46.3	42.3	54.0	50.0	11.2	7.2
UG065S06N	10.2	5.7	14.3	9.5	18.1	13.3	22.0	17.2	25.8	21.0	29.6	24.8	33.4	28.6	37.3	32.5	44.9	40.1	52.6	47.8	13.4	8.6
UG065S07N			12.8	7.2	16.6	11.0	20.5	14.9	24.3	18.7	28.1	22.5	31.9	26.3	35.8	30.2	43.4	37.8	51.1	45.5	15.7	10.1
UG065S08N					15.2	8.8	19.1	12.7	22.9	16.5	26.7	20.3	30.5	24.1	34.4	28.0	42.0	35.6	49.7	43.3	17.9	11.5
UG065S09N						17.6	10.4	21.4	14.2	25.2	18.0	29.0	21.8	32.9	25.7	40.5	33.3	48.2	41.0	20.2	13.0	
UG065S10N							20.0	12.0	23.8	15.8	27.6	19.6	31.5	23.5	39.1	31.1	46.8	38.8	22.4	14.4		
UG065S11N									22.4	13.6	26.2	17.4	30.1	21.3	37.7	28.9	45.4	36.6	24.6	15.8		
UG065S12N										24.7	15.1	28.6	19.0	36.2	26.6	43.9	34.3	26.9	17.3			
UG075S05N	16.0	9.1	21.0	14.1	26.1	19.2	31.1	24.2	36.1	29.2	41.2	34.3	46.2	39.3	51.2	44.3	61.3	54.4	71.4	64.5	16.1	9.2
UG075S06N	14.2	5.9	19.2	10.9	24.3	16.0	29.3	21.0	34.3	26.0	39.4	31.1	44.4	36.1	49.4	41.1	59.5	51.2	69.6	61.3	19.3	11.0
UG075S07N			17.3	7.7	22.4	12.8	27.4	17.8	32.4	22.8	37.5	27.9	42.5	32.9	47.5	37.9	57.6	48.0	67.7	58.1	22.5	12.9
UG075S08N					20.6	9.5	25.6	14.5	30.6	19.5	35.7	24.6	40.7	29.6	45.7	34.6	55.8	44.7	65.9	54.8	25.8	
UG075S09N						23.7	11.3	28.7	16.3	33.8	21.4	38.8	26.4	43.8	31.4	53.9	41.5	64.0	51.6	29.0	16.6	
UG075S10N							26.9	13.1	32.0	18.2	37.0	23.2	42.0	28.2	52.1	38.3	62.2	48.4	32.2	18.4		
UG075S11N									30.2	15.0	35.2	20.0	40.2	25.0	50.3	35.1	60.4	45.2	35.4	20.2		
UG075S12N										33.3	16.8	38.3	21.8	48.4	31.9	58.5	42.0	38.6	22.1			
UG085S05N	25.8	14.8	34.0	23.0	42.2	31.2	50.4	39.4	58.5	47.5	66.7	55.7	74.9	63.9	83.1	72.1	99.4	88.4	115.7	104.7	26.0	15.0
UG085S06N	22.8	9.6	31.0	17.8	39.2	26.0	47.4	34.2	55.5	42.3	63.7	50.5	71.9	58.7	80.1	66.9	96.4	83.2	112.7	99.5	31.2	18.0
UG085S07N			28.0	12.6	36.2	20.8	44.4	29.0	52.5	37.1	60.7	45.3	68.9	53.5	77.1	61.7	93.4	78.0	109.7	94.3	36.4	21.0
UG085S08N					33.2	15.6	41.4	23.8	49.5	31.9	57.7	40.1	65.9	48.3	74.1	56.5	90.4	72.8	106.7	89.1	41.6	24.0
UG085S09N						38.4	18.6	46.5	26.7	54.7	34.9	62.9	43.1	71.1	51.3	87.4	67.6	103.7	83.9	46.8	27.0	
UG085S10N							43.5	21.5	51.7	29.7	59.9	37.9	68.1	46.1	84.4	62.4	100.7	78.7	52.0	30.0		
UG085S11N								48.7	24.5	56.9	32.7	65.1	40.9	81.4	57.2	97.7	73.5	57.2	33.0			
UG085S12N									53.9	27.5	62.1	35.7	78.4	52.0	94.7	68.3	62.4	36.0				
UG095S05N	36.7	24.5	49.0	36.8	61.2	49.0	75.5	63.3	85.7	73.5	98.0	85.8	110.2	98.0	122.5	110.3	147.0	134.8	171.5	159.3	36.7	24.5
UG095S06N	31.8	17.2	44.1	29.5	56.3	41.7	70.6	56.0	80.8	66.2	93.1	78.5	105.3	90.7	117.6	103.0	142.1	127.5	166.6	152.0	44.0	29.4
UG095S07N			39.2	22.1	51.4	34.3	65.7	48.6	75.9	58.8	88.2	71.1	100.4	83.3	112.7	95.6	137.2	120.1	161.7	144.6	51.4	34.3
UG095S08N					46.5	27.0	60.8	41.3	71.0	51.5	83.3	63.8	95.5	76.0	107.8	88.3	132.3	112.8	156.8	137.3	58.7	39.2
UG095S09N						55.9	33.9	66.1	44.1	78.4	56.4	90.6	68.6	102.9	80.9	127.4	105.4	151.9	129.9	66.1	44.1	
UG095S10N							61.2	36.8	73.5	49.1	85.7	61.3	98.0	73.6	122.5	98.1	147.0	122.6	174.0	149.0		
UG095S11N								68.6	41.8	80.8	54.0	93.1	66.3	117.6	90.8	142.1	115.3	153.0	120.7	80.7	53.9	

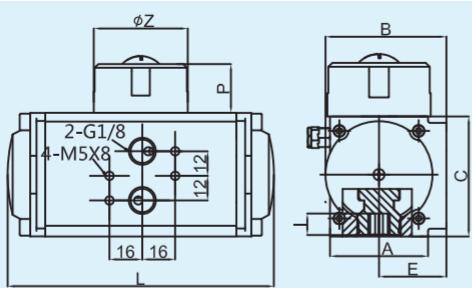
Torque-Metric Torque Output

Model	Spring Return Actuator Torque (N.m)																		Spring Return	
	Air Supply (Unit: Bar)																			
	2.5		3		3.5		4		4.5		5		5.5		6		7		8	
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	
UG125S05N	78.5	53.9	105.0	80.4	131.5	106.9	158.0	133.4	184.6	160.0	211.1	186.5	237.6	213.0	264.1	239.5	317.1	292.5	370.1	345.5
UG125S06N	67.7	38.2	94.2	64.7	120.7	91.2	147.2	117.7	173.8	144.3	200.3	170.8	226.8	197.3	253.3	223.8	306.3	276.8	359.3	329.8
UG125S07N		83.4	49.0	109.9	75.5	136.4	102.0	163.0	128.6	189.5	155.1	216.0	181.6	242.5	208.1	295.5	261.1	348.5	314.1	110.0
UG125S08N				99.1	59.7	125.6	86.2	152.2	112.8	178.7	139.3	205.2	165.8	231.7	192.3	284.7	245.3	337.7	298.3	125.8
UG125S09N						114.8	70.5	141.4	97.1	167.9	123.6	194.4	150.1	220.9	176.6	273.9	229.6	326.9	282.6	141.5
UG125S10N								130.6	81.4	157.1	107.9	183.6	134.4	210.1	160.9	263.1	213.9	316.1	266.9	157.2
UG125S11N										146.3	92.2	172.8	118.7	199.3	145.2	252.3	198.2	305.3	251.2	172.9
UG125S12N											162.0	103.0	188.5	129.5	241.5	182.5	294.5	235.5	288.6	129.6
UG140S05	133.8	96.4	177.7	140.3	221.6	184.2	265.5	228.1	309.4	272.0	353.2	315.8	397.1	359.7	440.9	403.5	528.7	491.3	616.5	579.1
UG140S06N	116.7		160.6	115.7	204.5	159.6	248.4	203.5	292.3	247.4	336.1	291.2	380.0	335.1	423.8	378.9	511.6	466.7	599.4	554.5
UG140S07N		143.5	91.1	187.4	135.0	231.3	178.9	275.2	222.8	319.0	266.6	362.9	310.5	406.7	354.3	494.5	442.1	582.3	529.9	172.1
UG140S08N			170.3	110.5	214.2	154.4	258.1	198.3	301.9	242.1	345.8	286.0	389.6	329.8	477.4	417.6	565.2	505.4	196.6	136.8
UG140S09N					197.1	129.8	241.0	173.7	284.8	217.5	328.7	261.4	372.5	305.2	460.3	393.0	548.1	480.8	221.2	153.9
UG140S10N						223.9	149.1	267.7	192.9	311.6	236.8	355.4	280.6	443.2	368.4	531.0	456.2	245.8	171.0	
UG140S11N								250.6	168.3	294.5	212.2	338.3	256.0	426.1	343.8	513.9	431.6	270.4	188.1	
UG140S12N									277.4	187.6	321.2	231.4	409.0	319.2	496.8	407.0	295.0	205.2		
UG160S05N	189.9	114.6	256.8	181.5	323.7	248.4	390.5	315.2	457.4	382.1	524.2	448.9	591.1	515.8	657.9	582.6	791.6	716.3	850.0	219.6
UG160S06N	161.0	70.7	227.9	137.6	294.8	204.5	361.6	271.3	428.5	338.2	495.3	405.0	562.2	471.9	629.0	538.7	762.7	672.4	806.1	263.5
UG160S07N		199.1	93.7	266.0	160.6	332.8	227.4	399.7	294.3	466.5	361.1	533.4	428.0	600.2	494.8	733.9	628.5	867.6	762.2	307.4
UG160S08N			237.1	116.6	303.9	183.4	370.8	250.3	437.6	317.1	504.5	384.0	571.3	450.8	705.0	584.5	838.7	718.2	351.4	230.9
UG160S09N					275.1	139.5	342.0	206.4	408.8	273.2	475.7	340.1	542.5	406.9	676.2	540.6	809.9	674.3	395.3	259.7
UG160S10N						313.1	162.5	379.9	229.3	446.8	296.2	513.6	363.0	647.3	496.7	781.0	630.4	439.2	288.6	
UG160S11N								351.0	185.4	417.9	252.3	484.7	319.1	618.4	452.8	752.1	586.5	483.1	317.5	
UG160S12N									389.1	208.4	455.9	275.2	589.6	408.9	723.3	542.6	857.0	346.3		
UG190S05N	309.0	195.0	410.0	296.0	511.0	397.0	612.0	498.0	713.0	599.0	814.0	700.0	915.0	801.0	1016.0	902.0	1218.0	1104.0	1420.1	1306.1
UG190S06N	269.8	133.0	370.8	234.0	471.8	335.0	572.8	436.0	673.8	537.0	774.0	638.0	875.8	739.0	976.8	840.0	1178.8	1042.0	1380.9	1244.1
UG190S07N		331.6	172.0	432.6	273.0	533.6	374.0	634.6	475.0	735.6	576.0	836.6	677.0	937.6	778.0	1139.6	980.0	1341.7	1182.1	1434.0
UG190S08N			393.4	211.0	494.4	312.0	595.4	413.0	696.4	514.0	797.4	615.0	898.4	716.0	1100.4	918.0	1302.5	1120.1	1496.0	
UG190S09N					455.2	250.0	556.2	351.0	657.2	452.0	758.2	553.0	859.2	654.0	1061.2	856.0	1263.3	1058.1	1558.0	
UG190S10N						517.0	289.0	618.0	390.0	719.0	491.0	820.0	592.0	1022.0	794.0	1224.1	996.1	1200.0		
UG190S11N								578.8	328.0	679.8	429.0	780.8	530.0	982.8	732.0	1184.9	934.1	1200.0		
UG190S12N									640.6	367.0	741.6	468.0	943.6	670.0	1145.7	872.1	1440.0			
UG210S05N	380.0	278.0	511.7	409.7	643.3	541.3	774.9	672.9	906.5	804.5	1038.1	936.1	1169.8	1067.8	1301.4	1199.4	1564.6	1462.6	1827.8	
UG210S06N	324.4	202.0	456.1	333.7	587.7	465.3	719.3	596.9	850.9	728.5	982.5	860.1	1114.2	991.8	1245.8	1123.4	1509.0	1386.6	1772.2	
UG210S07N		400.5	257.7	532.1	389.3	663.7	520.9	795.3	652.5	926.9	784.1	1058.6	915.8	1190.2	1047.4	1453.4	1310.6	1716.6		
UG210S08N			476.5	313.3	608.1	444.9	739.7	576.5	871.3	708.1	1003.0	839.8	1134.6	971.4	1397.8	1234.6	1661.0	1497.8	2008.0	
UG210S09N					552.5	368.9	684.1	500.5	815.7	632.1	947.4	763.8	1079.0	895.4	1342.2	1158.6	1605.4	1421.8	1684.0	
UG210S10N						628.5	424.5	760.1	556.1	891.8	687.8	1023.4	819.4	1286.6	1082.6	1549.8	1345.8	1760.0		
UG210S11N								704.5	480.1	836.2	611.8	967.8	743.4	1231.0	1006.6	1494.2	1269.8	1836.0		
UG210S12N									780.6	535.8	912.2	667.4	1175.4	930.6	1438.6	1193.8	1210.0			
UG240S05N	593.0	373.9	786.3	567.2	979.7	760.6	1173.1	954.0	1366.5	1147.4	1560.0	1340.9	1753.3	1534.2	1946.7	1727.6	2333.5	2114.4	2720.3	
UG240S06N	518.2	255.3	711.5	448.6	904.9	642.0	1098.3	835.4	1291.7	1028.8	1485.2	1222.3	1678.5	1415.6	1871.9	1609.0	2258.7	1995.8	2645.5	
UG240S07N		636.7	330.0	830.1	523.4	1023.5	716.8	1216.9	910.2	1410.4	1103.7	1603.7	1297.0	1797.1	1490.4	2183.9	1877.2	2570.7	2264.0	
UG240S08N			755.3	404.7	948.7	598.1	1142.1	791.5	1335.6	985.0	1528.9	1178.3	1722.3	1371.7	2109.1	1758.5	2495.9	2145.3	2490.0	
UG240S09N				873.9	479.5	1067.3	727.9	1260.8	866.4	1454.1	1059.7	1647.5	1253.1	2034.3	1639.9	2421.1	2026.7	1067.6		
UG240S10N						992.5	554.3	1186.0	747.8	1379.3	941.1	1572.7	1134.5	1959.5	1521.3	2346.3	1908.1	1186.2		
UG240S11N							1111.2	629.2	1304.5	822.5	1497.9	1015.9	1884.7	1402.7	2271.5	1789.5	2104.8			
UG240S12N								1229.7	703.9	1423.1	897.3	1809.9	1284.1	2196.7	1670.9	1423.4	1897.6			
UG270S05N	853.0	615.8	1146.7	909.5	1440.4	1203.2	1734.1	1496.9	2027.8	1790.6	2321.6	2084.4	2615.3	2378.1	2909.0	2671.8	3496.4	3259.2	4083.9	
UG270S06N	729.9	445.2	1023.6	738.9	1317.3	1032.6	1611.0	1326.3	1904.7	1620.0	2198.5	1913.8	2492.2	2207.5	2785.9	2501.2	3373.3	3088.6	3960.8	
UG270S07N		900.5	568.4	1194.2	862.1	1487.9	1155.8	1781.6	1449.5	2075.4	1743.3	2369.1	2037.0	2662.8	2330.7	3250.2	2918.1	3837.7	3505.6	1193.9
UG270S08N			1071.0	691.5	1364.7	985.2	1658.4	1278.9	1952.2	1572.7	2245.9	1866.4	2539.6	2160.1	3127.0	2747.5	3714.5</			

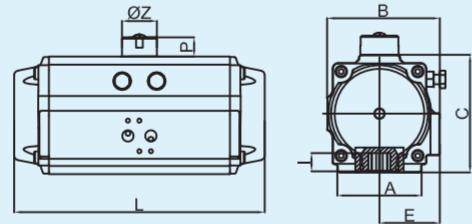
Installation Information

Sample Reference

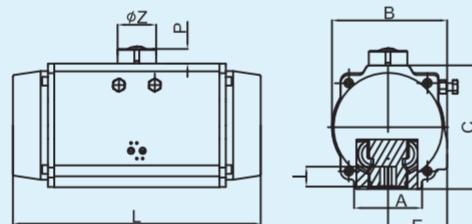
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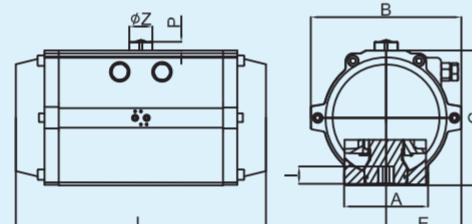
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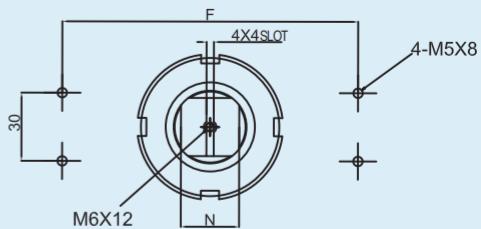
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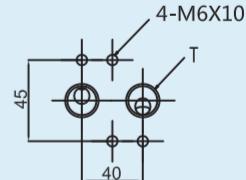
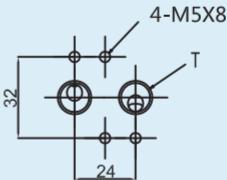
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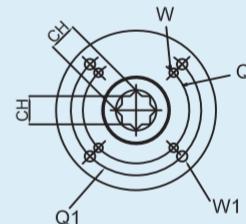
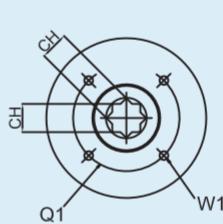
Top View



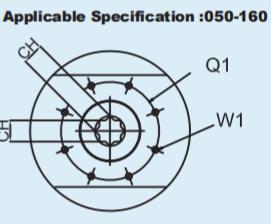
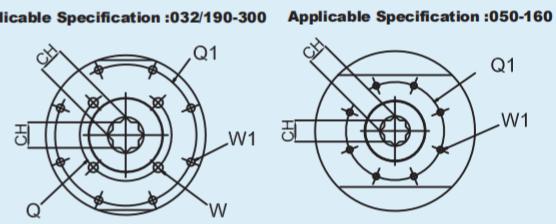
Air Supply Interface



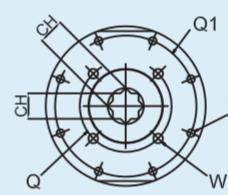
Bottom View



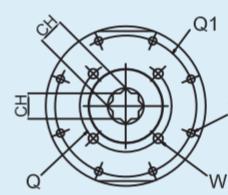
Applicable Specification :032/190-300



Applicable Specification :350



Applicable Specification :400



UG New Series Pneumatic Actuator Dimension Table (Unit: mm)

Model	A	B	C	L	E	F	P	Z	N	I	Flange Type	Q	Q1	W	W1	Ch	T
032	37	47	50	110	27	50	20	40	10	10	F03	-	36	-	M5x8	9x9	G1/8"
050	46	71	70	151	41.5	80	20	40	10	12	F03/F05	36	50	M5x7.5	M6x9	11x11	G1/4"
065	64	84.5	89	168	46.5	80	20	40	10	16	F05/F07	50	70	M6x9	M8x12	14x14	G1/4"
075	68	98.8	100	182	55	80	20	40	14	16	F05/F07	50	70	M6x9	M8x12	14x14	G1/4"
085	68	108.5	113	210	59.5	80	20	40	14	19	F05/F07	50	70	M6x9	M8x12	17x17	G1/4"
095	88	117.7	123	261.8	63	80	20	40	14	19	F05/F07	50	70	M6x9	M8x12	17x17	G1/4"
110	93	132	136	285.2	73	80	20	40	14	19	F07/F10	70	102	M8x12	M10x15	17x17	G1/4"
125	96	152	159	320	81	80/130	30	56	22	25	F07/F10	70	102	M8x12	M10x15	22x22	G1/4"
140	110	172	178	401	91	80/130	30	56	22	31	F10/F12	102	125	M10x15	M12x18	27x27	G1/4"
160	112	189	200	459	100	80/130	30	56	22	31	F10/F12	102	125	M10x15	M12x18	27x27	G1/4"
190	136	217	232	495	112	130	30	56	22	41	F10/F14	102	140	M10x15	M16x24	36x36	G1/4"
210	140	236	255	529	122	130	30	80	32.5	40	F14	-	140	-	M16x24	36x36	G1/4"
240	160	268.5	292	618	139	130	30	80	32.5	50	F16	-	165	-	M20x25	46x46	G1/2"
270	160	296	331	737	151	130	30	80	32.5	50	F16	-	165	-	M20x25	46x46	G1/2"
300	180	335	354	784	173	130	30	80	32.5	50	F16	-	165	-	M20x25	46x46	G1/2"
350	270	385	410	845	195	130	30	80	32.5	50	F16/F25	165	254	M20x25	M16x24	46x46	G1/2"
400	290	520	466	956	260	130	30	80	32.5	60	F25	-	254	-	M16x24	55x55	G1/2"

Selection Method

Model	Type	Spring Qty.	Code	Flange Type	Square	Option	Sealing Part
UG032	D=Double Acting S=Spring Return	Dedicated to Spring Return	N	F03	9x9	End Cap Color RAL 7046 9004 5021 3020 6002 5015	Standard Nitrile Rubber -18°C~+80°C
UG050				F03/05	11x11		
UG065				F05/07	14x14		
UG075				F05/07	14x14		
UG085				F05/07	17x17		
UG095				F05/07	17x17		
UG110				F07/10	17x17		HT Fluororubber (High Temperature) -18°C~+150°C
UG125				F07/10	22x22		
UG140				F10/12	27x27		
UG160				F10/12	27x27		
UG190				F10/14	36x36		LT Silastic (Low Temperature) -40°C~+80°C
UG210				F14	36x36		
UG240				F16	46x46		
UG270				F16	46x46		
UG300				F16	46x46		
UG350				F16/25	46x46		
UG400				F25	55x55		

Remarks:

- 1.The standard rotation of double acting and spring return is clockwise to close.
- 2.Sealing parts come standard with normal temperature ranges of -18°C to 80°C. Corresponding sealing types are available for environment at high or low temperature.
- 3.Please refer to brochure for technical parameter details.
- UG has the capability to provide customized service based on standard products. Please contact UG for details.
- 4.Customized service including but not limited to:
 - Color combination;
 - Flange and square;
 - Higher protection grade;

Model Selection Example:

Example1: UG095DN F05/07 17 P7046

Description: Actuator model UG095N, double acting, ISO flange F05&F07, 17 mm diagonal square with standard indicator as well as standard nitrile rubber sealing, P body, cap color grey(RAL7046).

Example2:UG190S12N F14 36 S5021 HT F0

Description:Actuator model UG190N,single acting spring return,12springs, ISO flange F14,36 mm diagonal square ,S body, cap color green (RAL5021), fluororubber rubber sealing.

⚠️ Notice

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