

# UAAMC SERIES

Various fastening errors such as double-hit, cross-thread, foreign objects insertion are detectable. Fastening quality improved by angle monitoring function provides you with enhanced reliability.

BOLT &amp; NUT SETTERS



UA400AMC



UA500AMC



UA600AMC



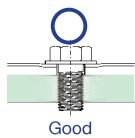
UA700AMC



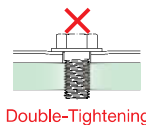
UA1300AMC

## FEATURES

- UAAMC series are capable of angle monitoring in addition to the torque control/monitoring from UAMC series. It enables you to get double-hit, cross-thread, foreign object insertion and so forth by angle monitoring, and improve the fastening quality.
- URYU independent new technology "Auto Relief Function" (PAT.) is adopted.



Good

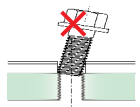


Double-Tightening

### Double-Tightening :

Detectable as the torque increases, while the free run angle lacks.

- Free Run Angle NG

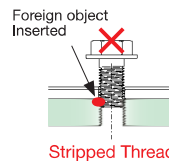


Cross Thread

### Cross Thread :

Detectable as the fastening angle gets too high.

- Angle NG

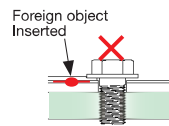


Stripped Thread

### Stripped Thread/Seized Thread :

Detectable as the torque does not increase and the fastening angle gets too high.

- Angle NG



Seized Thread

### Foreign Object Inserted :

Detectable as the torque does not increase and the fastening angle gets too high.

- Angle NG

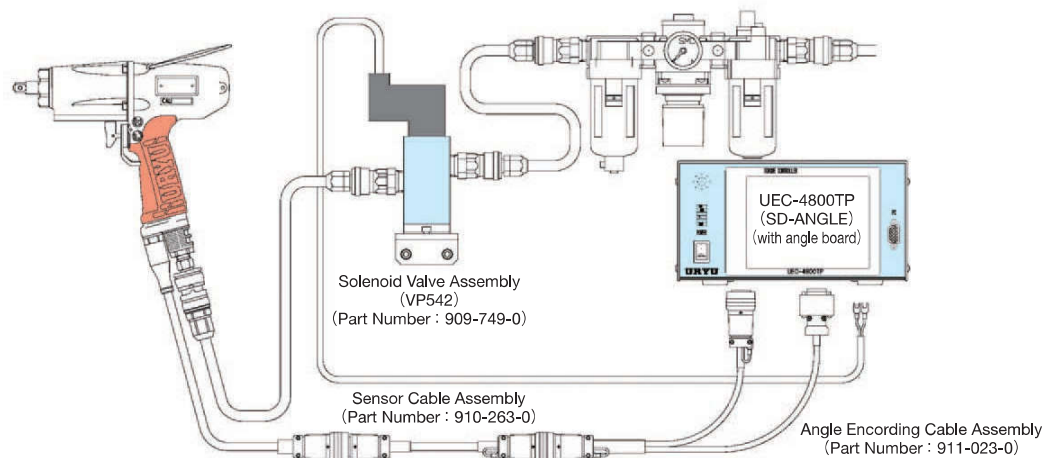
## SPECIFICATIONS

Recommended Air Pressure: 0.5MPa (72psi) - 0.6MPa (85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa		0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
UA400AMC	6	1/4	5-11	3.7-8.1	7-13	5.2-9.6	3300	3600	193	7 19/32	1.35	2.97	28.0	1 7/64	9.5	3/8	0.20	7.0
UA500AMC	6-8	1/4-5/16	9-20	6.6-14.8	11-25	8.1-18.4	4100	4250	193	7 19/32	1.35	2.97	28.0	1 7/64	9.5	3/8	0.25	8.8
UA600AMC	8	5/16	16-30	11.8-22.1	18-38	13.3-28.0	4900	5000	198.5	7 13/16	1.4	3.08	28.0	1 7/64	9.5	3/8	0.40	14.0
UA700AMC	8-10	5/16-3/8	25-40	18.4-29.5	30-50	22.1-36.9	5300	5700	207.5	8 11/64	1.5	3.3	28.5	1 1/8	9.5	3/8	0.45	15.8
UA800AMC *	10	3/8	35-50	25.8-36.9	40-60	29.5-44.3	5600	6000	215.5	8 31/64	1.7	3.74	29.0	1 9/64	9.5	3/8	0.48	16.8
UA900AMC	10-12	3/8-1/2	35-65	25.8-47.9	40-80	29.5-59.0	5200	5500	227.5	8 61/64	2.15	4.73	28.0	1 7/64	12.7	1/2	0.53	18.6
UA1000AMC	12	1/2	45-75	33.2-55.3	50-90	36.9-66.4	4900	5200	235.0	9 1/4	2.45	5.39	30.0	1 3/16	12.7	1/2	0.55	19.3
UA1300AMC	14	9/16	70-110	51.6-81.1	85-130	62.7-95.9	4000	4500	256.5	10 3/32	3.25	7.15	36.0	1 27/64	12.7	1/2	0.73	25.6

Air Inlet size : NPT1/4\* Air Hose size : 10mm×6.5mm×5m for UA400AMC and UA500AMC 12mm×8.0mm×5m for UA600AMC~UA1000AMC 16mm×11.0mm×5m for UA1300AMC  
\*Please refrain from using UA800AMC at around max. torque as it is developed to aim at torque output between UA700AMC and UA900AMC.

### System Layout

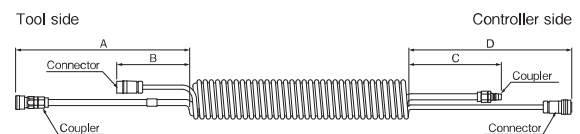


### OPTION

#### Cable Hose Assembly

Cable Hose Assembly is a combination hose of Air Hose and Sensor Cable Assembly which can be used for the connection between MC/EC wrench and Controller/Solenoid Valve Assembly.

Please ask your local URYU distributor for details of corresponding models, size, hose inside diameter and so on.



Parts Name	Part Number	Hose Color	Dimensions (mm)						Hose inside Diameter (mm)
			A	B	Maximum Coiled Range of use	Minimum Coiled Length	C	D	
Cable Hose Assembly $\phi 12 \times \phi 45 \times 27$ (R) 1.1	935-280-0	Red	1300	1100	2200	350	300	500	8
Cable Hose Assembly $\phi 12 \times \phi 75 \times 38$ (GR)	935-276-0	Gray	400	200	5800	480	200	400	8
Cable Hose Assembly $\phi 12 \times \phi 45 \times 28$ (GR)	935-275-0	Gray	1000	700	2400	370	300	500	8

# UAMC SERIES

In pursuit of high-efficiency, high-accuracy and durability, we have adopted auto-relief function\*, which shortens the fastening time and improve the fastening efficiency.

\*Refer to page 8 for more understanding of "auto-relief function" (PAT).

BOLT & NUT SETTERS

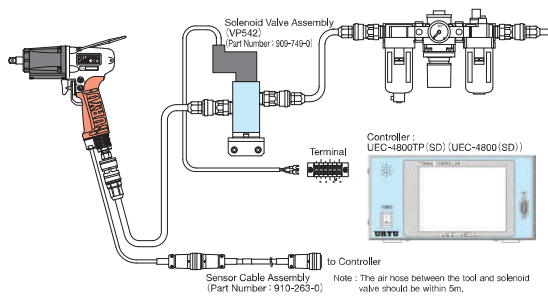


## FEATURES

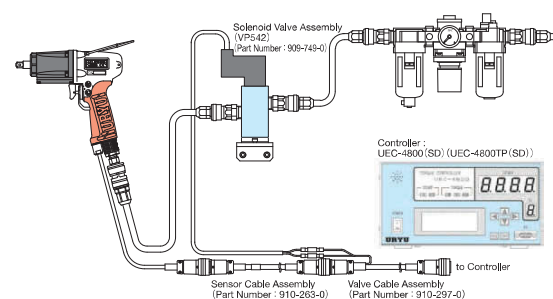
- URYU independent new technology "Auto Relief Function" (PAT), is adopted.
- In addition to the protective handgrip, full-cover Tool Jacket is equipped as standard, which protects tools and reduces the damage to the work.
- Ergonomic light weight & compact design ensures less operators fatigue.

## System Layout

### When using an external terminal (UEC-4800 TP (SD))

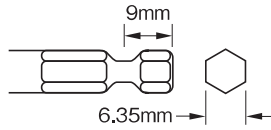


### When not using an external terminal (UEC-4800(SD))



### Quick-change driver anvil type

On pulling the sleeve, insert or take off the bit.



The model name suffixing (D) is the Quick-change driver anvil type.

### SPECIFICATIONS (PISTOL TYPE)

Recommended Air Pressure:0.5MPa (72psi) - 0.6MPa (85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
UA40MC	6	1/4	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	3300	3600	170	6 11/16	1.1	2.42	26	1 1/32	9.5	3/8	0.20	7.0
UA40DMC	6	1/4	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	3300	3600	170	6 11/16	1.1	2.42	26	1 1/32	6.35	1/4	0.20	7.0
UA50MC	6-8	1/4	11.9-22.5	8.8-16.6	16.6-29.0	12.2-21.4	4100	4250	170	6 11/16	1.1	2.42	26	1 1/32	9.5	3/8	0.25	8.8
UA50DMC	6-8	1/4	11.9-22.5	8.8-16.6	16.6-29.0	12.2-21.4	4100	4250	170	6 11/16	1.1	2.42	26	1 1/32	6.35	1/4	0.25	8.8
UA60MC	8	5/16	18.1-34.2	13.3-25.3	25.1-44.0	18.5-32.5	4900	5000	175	6 57/64	1.14	2.51	26	1 1/32	9.5	3/8	0.40	14.0
UA70MC	8-10	5/16-3/8	20.5-38.9	15.1-28.7	28.5-50.0	21.0-37.0	5300	5700	187	7 23/64	1.24	2.73	26	1 1/32	9.5	3/8	0.45	15.8
UA80MC*	10	3/8-1/2	30.0-50.0	22.2-37.0	40.0-60.0	29.6-44.4	5700	6000	195	7 43/64	1.55	3.41	26	1 1/32	9.5	3/8	0.48	16.8
UA90MC	10-12	3/8-1/2	32.8-62.2	24.2-46.0	45.7-80.0	33.8-59.2	5200	5500	203	7 63/64	1.7	3.74	28	1 7/64	12.7	1/2	0.53	18.6
UA100MC	12	1/2	36.9-70.0	27.3-51.8	51.4-90.0	38.0-66.6	4900	5200	215	8 15/32	2.05	4.51	30	1 3/16	12.7	1/2	0.55	19.3
UA130MC	14	9/16	53.4-101.0	39.5-74.7	74.2-130.0	54.9-96.2	4000	4500	233	9 11/64	2.8	6.16	36	1 27/64	12.7	1/2	0.73	25.6

Air Inlet size : NPT1/4" Air Hose size : 10mm×6.5mm×5m for UA40MC~50MC 12mm×8.0mm×5m for UA60MC~100MC 16mm×11.0mm×5m for UA130MC  
\*Please refrain from using UA80MC at around max. torque as it is developed to aim at torque output between UA70MC and UA90MC.

### SPECIFICATIONS (STRAIGHT TYPE) OK / NOK LED indicator equipped.

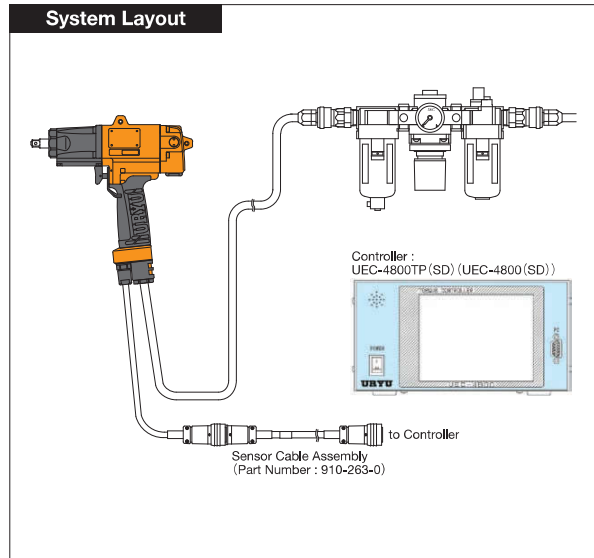
Recommended Air Pressure:0.5MPa (72psi) - 0.6MPa (85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
UA40SMC	6	1/4	5-11	3.7-8.1	7-13	5.2-9.6	3300	3600	246	9 11/16	1.22	2.68	26	1 1/32	9.5	3/8	0.20	7.0
UA40SDMC	6	1/4	4.5-9.5	3.3-7.0	5-12	3.7-8.9	3300	3600	246	9 11/16	1.22	2.68	26	1 1/32	6.35	1/4	0.20	7.0
UA50SMC	6-8	1/4-5/16	9-20	6.7-14.8	11-25	8.1-18.5	4100	4250	246	9 11/16	1.23	2.70	26	1 1/32	9.5	3/8	0.25	8.8
UA50SDMC	6-8	1/4-5/16	8-18	5.9-13.3	9-23	6.7-17.0	4100	4250	246	9 11/16	1.23	2.70	26	1 1/32	6.35	1/4	0.25	8.8
UA60SMC	8	5/16	16-30	11.8-22.2	18-38	13.3-28.1	4900	5000	252	9 61/64	1.30	2.86	26	1 1/32	9.5	3/8	0.40	14.0
UA60SDMC	8	5/16	14-27	10.4-20.0	16-34	11.8-25.2	4900	5000	252	9 61/64	1.30	2.86	26	1 1/32	6.35	1/4	0.40	14.0
UA70SMC	8-10	5/16-3/8	25-40	18.8-29.6	30-50	22.2-37.0	5300	5700	265	10 7/16	1.39	3.05	26	1 1/32	9.5	3/8	0.45	15.8

Air Inlet size : NPT1/4" Air Hose size : 10mm×6.5mm×5m for UA40SMC~50SMC 12mm×8.0mm×5m for UA60SMC and UA70SMC

# ALPHA / UXR-MC SERIES

BOLT & NUT SETTERS

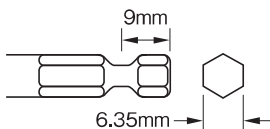


## FEATURES

- Electronic Control Tool built in Shut-Off Valve. As soon as the target torque has been achieved, tool stops working automatically.
- LED indicator shows Good or No Good judgement after each tightening.
- In addition to Handle Cover, Body Jacket is supplied as standard equipment to protect tool and the work surface.

## Quick-change driver anvil type

On pulling the sleeve, insert or take off the bit.



The model name suffixing (D) is the Quick-change driver anvil type.

## SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
ALPHA-60MC	6	1/4	9-15	6.5-10.8	10-20	7.2-14.4	6800	7000	215	8 15/32	1.40	3.1	25.5	1	9.5	3/8	0.25	8.8
ALPHA-60DMC	6	1/4	9-15	6.5-10.8	10-20	7.2-14.4	6800	7000	215	8 15/32	1.40	3.1	25.5	1	6.35	1/4	0.25	8.8
ALPHA-60SMC*	6	1/4	9-15	6.5-10.8	10-17	7.2-14.4	6000	6300	280	11 1/32	1.40	2.6	25.5	1	9.5	3/8	0.25	8.8
ALPHA-70MC	8	5/16	12.5-25	8.6-18.0	15-30	10.8-21.6	6800	7300	215	8 15/32	1.43	3.1	25.5	1	9.5	3/8	0.25	8.8
ALPHA-80MC	8	5/16	16-30	11.5-21.6	20-40	14.4-28.9	6800	7000	231	9 3/32	1.50	3.3	25.5	1	9.5	3/8	0.45	15.8
ALPHA-90MC	8-10	5/16-3/8	20-40	14.4-28.9	30-47	21.6-33.9	6000	6500	231	9 3/32	1.50	3.3	25.5	1 7/64	9.5	3/8	0.45	15.8
ALPHA-101MC	10	3/8	34-58	24.5-42.6	38-70	27.4-51.3	6000	6200	243	9 9/16	2.10	4.6	28.0	1 3/16	12.7	1/2	0.50	17.6
ALPHA-110MC	12	3/8-1/2	45-75	32.5-54.9	55-100	40.5-72.3	4500	5000	250	9 27/32	2.50	5.6	30.0	1 27/64	12.7	1/2	0.65	22.9
ALPHA-130MC	14	9/16	80-130	58.5-95.4	90-150	65.8-109.9	3200	3400	276	10 55/64	3.50	7.7	36.0	1 21/32	12.7	1/2	0.65	22.9
ALPHA-140MC	16	5/8	140-200	103.4-147.6	150-220	110.7-162.0	3300	3500	295	11 39/64	4.63	10.2	40.0	1 37/64	19.0	3/4	0.80	28.3
UXR-1820MC	18	3/4	140-220	102.7-162.0	160-250	117.8-183.7	4400	4600	322	12 43/64	5.50	12.3	42.0	1 21/32	19.0	3/4	0.70	24.7
UXR-2000MC	20	3/4	200-350	147.6-258.2	250-400	184.4-295.1	4600	4800	355	13 31/32	8.00	17.6	47.0	1 21/32	19.0	3/4	0.95	33.6
UXR-2400SMC	24	7/8	300-550	221.3-405.8	350-600	258.2-442.7	3100	3300	457	17 63/64	12.5	27.6	55.0	1 11/64	25.4	1	1.00	35.3

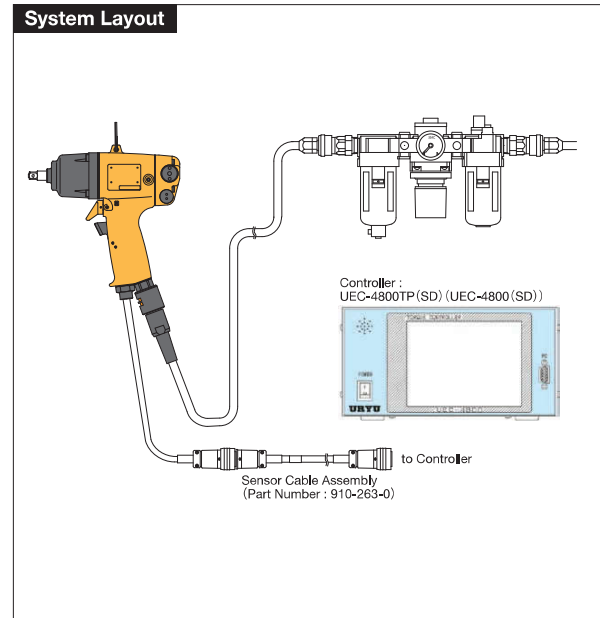
\*External Solenoid Valve is required.

Air Inlet size : NPT1/4" for ALPHA-60MC-ALPHA-140MC NPT3/8" for UXR-1820MC & UXR-2000MC NPT1/2" for UXR-2400MC

Air Hose size : 9.5mm (3/8") for ALPHA-60MC-ALPHA-140MC 12.7mm (1/2") for UXR-1820MC-UXR-2400MC

Inside Trigger is available for UXR-2400SMC

# U / UX-EC SERIES



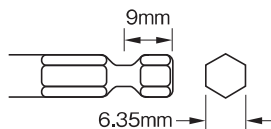
BOLT & NUT SETTERS

## FEATURES

- Electronic Control Tool built in Shut-Off Valve. As soon as the target torque has been achieved, tool stops working automatically.
- Strain-gauged torque transducer is adopted.
- LED indicator shows Good or No Good judgement after each tightening.

## Quick-change driver anvil type

On pulling the sleeve, insert or take off the bit.



The model name suffixing (D) is the Quick-change driver anvil type.

## SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0,5MPa		0,6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0,5MPa	0,6MPa	mm	in	kg	lb	mm	in	mm	in	m <sup>3</sup> /min	ft <sup>3</sup> /min
U-50EC	6	1/4	4-10	2,9-7,4	5-11	3,7-8,1	2000	2100	195	7 43/64	1,50	3,31	24,0	1 1/32	9,5	3/8	0,25	8,8
U-50DEC	6	1/4	4-10	2,9-7,4	5-11	3,7-8,1	2000	2100	201	7 29/32	1,50	3,31	24,0	1 1/32	6,35	1/4	0,25	8,8
U-60EC	6	1/4	10-25	7,4-18,4	15-30	11,1-22,1	1800	1900	193	7 19/32	1,57	3,46	27,0	1 1/16	9,5	3/8	0,35	12,3
U-60DEC	6	1/4	10-25	7,4-18,4	15-30	11,1-22,1	1800	1900	198	7 51/64	1,57	3,46	27,0	1 1/16	9,5	3/8	0,35	12,3
UX-80EC	8	5/16	15-40	18,4-29,5	20-45	14,7-33,2	1700	1800	196	7 23/32	1,80	3,97	30,0	1 3/16	9,5	3/8	0,45	15,8
U-100EC	10	3/8	40-70	29,5-51,6	50-80	36,9-59,0	1500	1600	233	9 11/64	2,80	6,17	33,0	1 19/64	12,7	1/2	0,65	22,9
UX-120EC** (See below)	12	1/2	-	-	-	-	-	-	255	10 3/64	3,90	8,60	36,0	1 27/64	12,7	1/2	0,80	28,2
UX-130EC	12	1/2	80-150	59,0-110,2	90-170	66,1-125,4	1050	1250	273	10 3/4	4,70	10,37	40,0	1 9/16	12,7	1/2	1,00	35,0
U-50SEC*	6	1/4	4-10	2,9-7,4	5-11	3,7-8,1	2000	2100	280	11 1/32	1,55	3,42	21,0	53/64	9,5	3/8	0,22	7,7
U-50SEDEC*	6	1/4	4-10	2,9-7,4	5-11	3,7-8,1	2000	2100	288	11 11/32	1,55	3,42	21,0	53/64	6,35	1/4	0,22	7,7
U-60SEC	6	1/4	10-20	7,4-19,1	15-25	11,1-18,4	1800	1900	305	8 5/64	2,00	4,41	27,0	1 1/16	9,5	3/8	0,35	12,3

\*External Solenoid Valve is required.

\*\*UX-120EC has to be used at about 0.35MPa (50psi) - 0.40MPa (57psi) The Torque Range : 65 - 120Nm The Free Speed : 900 r.p.m.

Air Inlet Size : NPT1/4"

Air Hose Size : 9.5mm (3/8")