

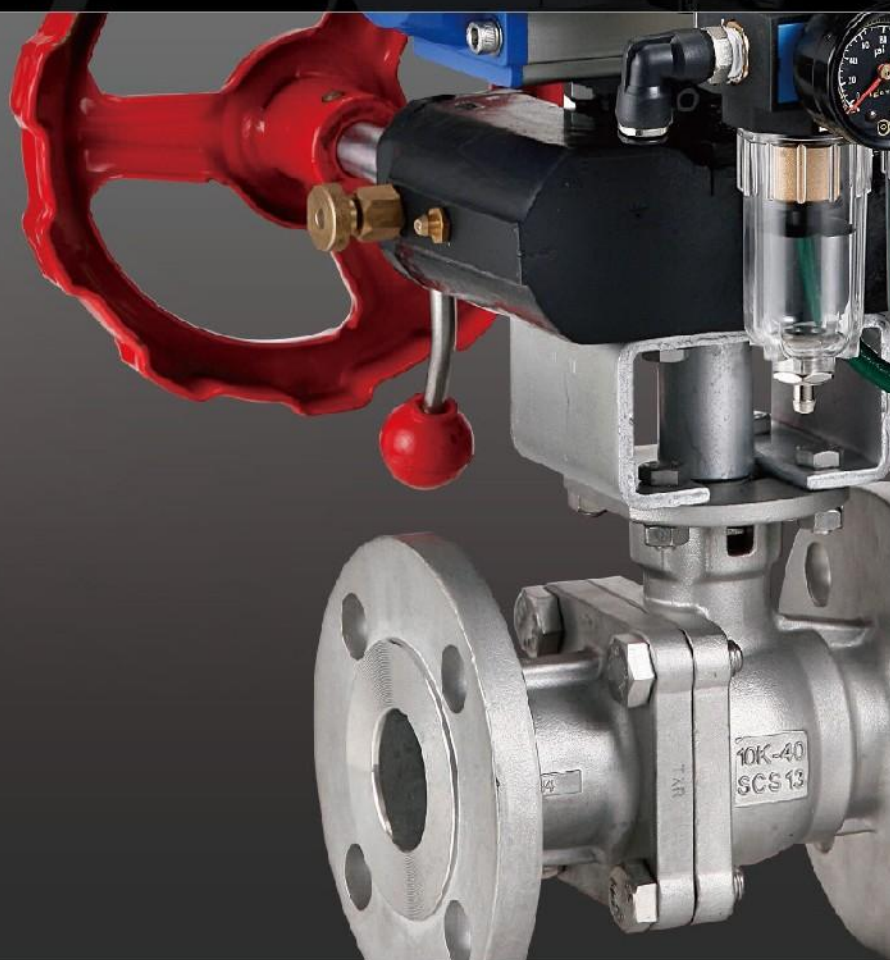
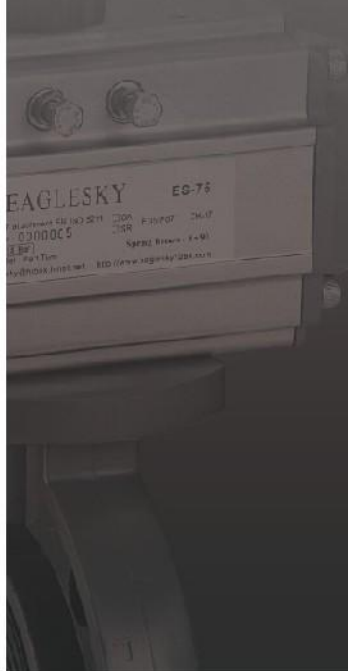
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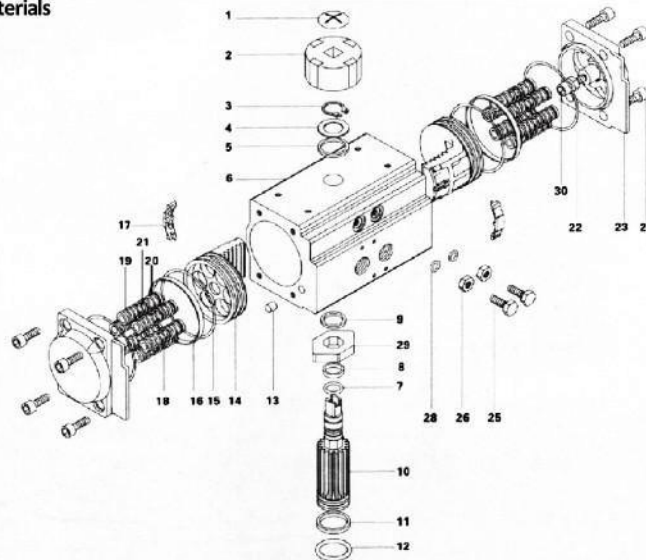
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零件及其材料 Parts & Materials



序號	名稱	數量	材料
1	指示器螺釘	1	不鏽鋼
2	指示器	1	塑料
3	彈性擋圈	1	不鏽鋼
4	墊片	1	不鏽鋼
5	外墊片	1	工程塑料
6	銅體	1	銅合金
7	上軸"O"型圈	1	氟橡膠、丁腈橡膠
8	上軸支承圈	1	工程塑料
9	內墊片	1	工程塑料
10	軸	1	合金鋼
11	下軸支承圈	1	工程塑料
12	下軸"O"型圈	1	氟橡膠、丁腈橡膠
13	塞頭	2	橡膠
14	活塞	2	壓鑄鋁
15	活塞"O"型圈	2	氟橡膠、丁腈橡膠
16	活塞支承圈	2	工程塑料
17	活塞導板	2	尼龍66
18	彈簧	*	彈簧鋼
19	彈簧左套	*	尼龍66
20	彈簧右套	*	尼龍66
21	彈簧套連桿	*	銅
22	端蓋"O"型圈	2	氟橡膠、丁腈橡膠
23	端蓋	2	壓鑄鋁
24	端蓋緊固螺桿	8	不鏽鋼
25	調節螺桿	2	不鏽鋼
26	調節螺桿螺帽	2	不鏽鋼
27	調節螺桿墊圈	2	不鏽鋼
28	調節螺桿"O"型圈	2	氟橡膠、丁腈橡膠
29	凸輪	1	合金鋼
30	限位螺絲	2	不鏽鋼

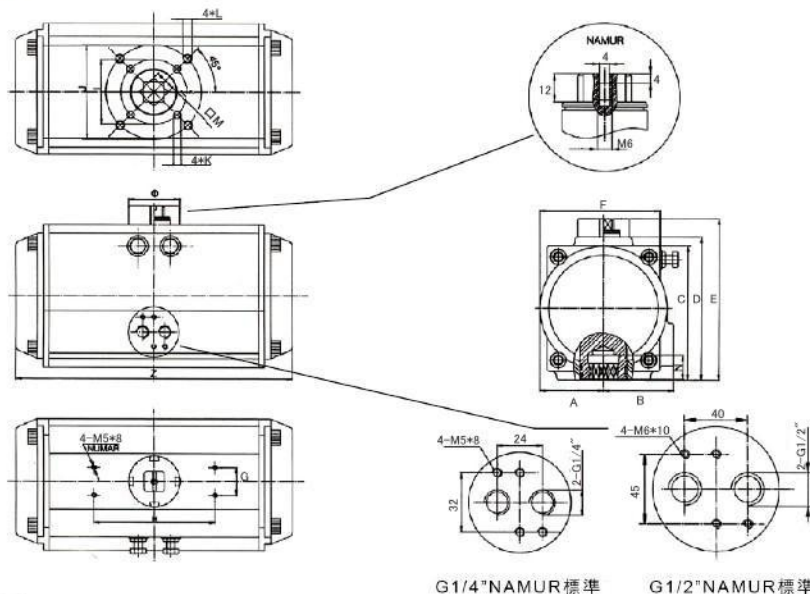
NO	Description	Qty	Standards Material
1	Indicator Screw	1	Stainless steel
2	Indicator	1	plastic
3	Snap Ring	1	Stainless steel
4	Washer	1	Stainless steel
5	Outside Washer	1	Engineering Plastics
6	Body	1	Aluminum Alloy
7	O-ring(Top)	1	Viton/NBR
8	Bearing Top	1	Engineering Plastics
9	Inside Washer	1	Engineering Plastics
10	Pinion	1	Alloy steel
11	Bearing Bottom	1	Engineering Plastics
12	O-ring Bottom	1	Viton/NBR
13	Plug	2	NBR
14	Piston	2	Die-casting aluminum
15	Piston O-ring	2	Viton/NBR
16	Piston Bearing	2	Engineering Plastics
17	Guide Piston	2	Nylon 66
18	Spring	*	Spring steel
19	Spring Retainer(L)	*	Nylon 66
20	Spring Retainer(R)	*	Nylon 66
21	Retainer Connector	*	Brass
22	End-Cap O-ring	2	Viton/NBR
23	End-Cap	2	Die-casting aluminum
24	End-Cap Stop Screw	8	Stainless steel
25	Adjust Screw	2	Stainless steel
26	Adjust Screw Nut	2	Stainless steel
27	Adjust Screw Washer	2	Stainless steel
28	Adjust Screw O-ring	2	Viton/NBR
29	Cam	1	Alloy steel
30	Stop Screw	2	Stainless steel

標準規格 Specifications

型號 Model	ES03/05/10/20/25/30/40/45/50/55/60/65/70
缸體材質 Body material	鋁合金 Allminum alloy
活塞材質 Piston material	壓鑄鋁 Die-casting aluminum
端蓋材質 Cover material	壓鑄鋁 Die-casting aluminum
輸出軸 Output shaft	45#、2CR13、SUS304、SUS316、SUS316L
輸出扭力 Output torque	12N.M ~ 15000N.M
開度 Opening	90°、120°、135°、180°
氣源壓力 Gas pressure	0.2Mpa ~ 0.8Mpa
環境溫度 Temperature around	標準型 Standard: -20° ~ +80° 高溫型 High temperature: -15° ~ +150° 低溫型 Low temperature: -40° ~ +80°
材質處理 Material handling	陽極硬質氧化 Hard oxidation of anode、鍍鎳磷合金 Nickel-phosphorus alloy plated
表面處理 Surface plating	烤漆 Plating、環氧樹脂 epoxy、噴塑 plastic、噴尼龍 nylon、噴四氟 PTFE、噴特氟龍 teflon spraying
連接尺寸 Connection size	ISO5211 標準 ISO5211 Standard
接口尺寸 Interface dimentions	NUMAR 標準 NUMAR standard
作用方式 Action mode	單作用 Spring Return/ 雙作用 Double Acting
允許洩漏 Leakage allowed	零洩漏 None

ES 氣缸公制尺寸圖與表

Dimensions And Technical Data



G1/4"NAMUR標準

G1/2"NAMUR標準

尺寸表:dimension table

單位Unit:mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Z	φ	氣源接口Air connection
ES03	23	23	46	-	66	46	25	50	φ36	-	-	M5X7.5	9	12	110	φ40	NAMUR G1/8"
ES05	30	41.5	65.5	72	92	65	30	80	φ36	φ50	M5X8	M6X10	11	14	147	φ40	NAMUR G1/4"
ES10	36	47	81	87.5	107.5	72	30	80	φ50	φ70	M6X10	M8X13	14	18	168	φ40	NAMUR G1/4"
ES20	42	53	94	99.5	119.5	81	30	80	φ50	φ70	M6X10	M8X13	14	18	184	φ40	NAMUR G1/4"
ES25	46	57	98.5	108.7	128.7	92	30	80	φ50	φ70	M6X10	M8X13	17	21	204	φ40	NAMUR G1/4"
ES30	57.5	64	122.5	133	153	109.5	30	80	φ70	φ102	M8X13	M10X16	22	26	268	φ40	NAMUR G1/4"
ES40	67.5	74.5	145.5	155	175	127.5	30	80	φ70	φ102	M8X13	M10X16	22	26	301	φ55	NAMUR G1/4"
ES45	75	77	161	172	192	137.5	30	80	φ102	φ125	M10X16	M12X20	27	31	390	φ55	NAMUR G1/4"
ES50	87	87+	184	197	217	158	30	80	φ102	φ125	M10X16	M12X20	27	31	458	φ55	NAMUR G1/4"
ES55	103	103	216	230	260	189	30	130		φ140		M16X25	36	50	525	φ80	NAMUR G1/4"
ES60	113	113	235.5	255	285	210	30	130		φ140		M16X25	36	50	532	φ80	NAMUR G1/4"
ES65	130	130	264.5	289	319	245	30	130		φ165		M20X25	46	60	602	φ80	NAMUR G1/4"
ES70	147	147	299	326	356	273	30	130		φ165		M20X25	46	60	722	φ80	NAMUR G1/2" (NAMUR G1/4")

公制 Metric System	型號狀態 Model Status	ES05 D S	ES10 D S	ES20 D S	ES25 D S	ES30 D S	ES40 D S	ES45 D S	ES50 D S	ES55 D S	ES60 D S	ES65 D S											
氣壓室體積 Pressure chamber volume	Φ (mm)	50	63	75	88	100	125	145	160	180	200	240											
行程調整 Stroke Adjustment	For 1°所需轉數	1/6turn	1/6turn	1/6turn	1/5turn	1/5turn	1/4turn	1/5turn	1/4turn	1/4turn	1/4turn	1/4turn											
開啓時空氣體積 Air Volume	(Open) (L)	0.09	0.16	0.31	0.51	0.71	1.54	2.41	3.14	4.26	5.94	10											
關閉時空氣體積 Air Volume	(Closed) (L)	0.15	0.26	0.49	0.78	1.11	2.34	3.78	4.92	6.89	9.46	15.2											
開啓時間 Opening Time(A)	(Sec.)	0.2	0.25	0.25	0.3	0.3	0.4	0.4	0.5	0.7	0.9	1.2	1.2	1.5	1.5	1.8	2	2.4	2.7	3.5	3.5	4.1	
關閉時間 Closing Time (A)	(Sec.)	0.25	0.3	0.3	0.35	0.35	0.5	0.5	0.6	0.6	0.9	1.1	1.4	1.4	1.8	1.7	2.1	2.2	2.8	3.2	4	4	4.6
單位近似重量 Approximate Unit Weight	(Kg)	1.38	1.45	2.03	2.05	2.7	2.9	3.13	3.60	5.77	6.85	8.90	10.1	13.25	15.55	20.14	24.00	31.30	35.25	46.80	54.80	67.28	80.20

■ 說明：(A) 驅動器的動作時間是下列測試條件所得：(1) 室溫 (2) 90°行程 (3) 電磁閥的管徑為4mm且流通能力為Qn 400L/min (4) 管內徑為8mm (5) 中性乾淨空氣 (6) 氣源壓力為5.5巴 (79.75 PSI) (7) 驅動器空載。 注：在使用中現場有一個或多個時參數不同，動作時間與開關度會有不同。

Instructions: (A) Action time of the actuator is tested under the following circumstance: (1) Room Temp. (2) 90deg. Stroke (3) The diameter of Solenoid Valve should be 4mm and its flow capacity should be Qn 400L/min. (4) Inner diameter should be 8mm. (5) Neutral clean air. (6) Gas pressure should be 5.5bar(79.75Psi) (7) The actuator should be none load.

產品 Products



氣動金屬蝶閥
Pneumatic Butterfly



氣動塑料球閥
Pneumatic PVC Ball Valve



氣動食品級球閥
Pneumatic Sanitary Ball Valve



氣動塑料蝶型閥
Pneumatic PVC Butterfly Valve



氣動閥門成套設備
Pneumatic Valve Facility

零件 Parts



五口二位蘭目型電磁閥
5/2 Way Namur Solenoid Valve



微動開關顯示器
Limit Switch Box(Explosion type / None-explosion type)



角行程氣缸用定位器
Electro-Pneumatic Positioner(Rotary)



氣缸用齒輪箱
Gear box for Pneumatic Actuator



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