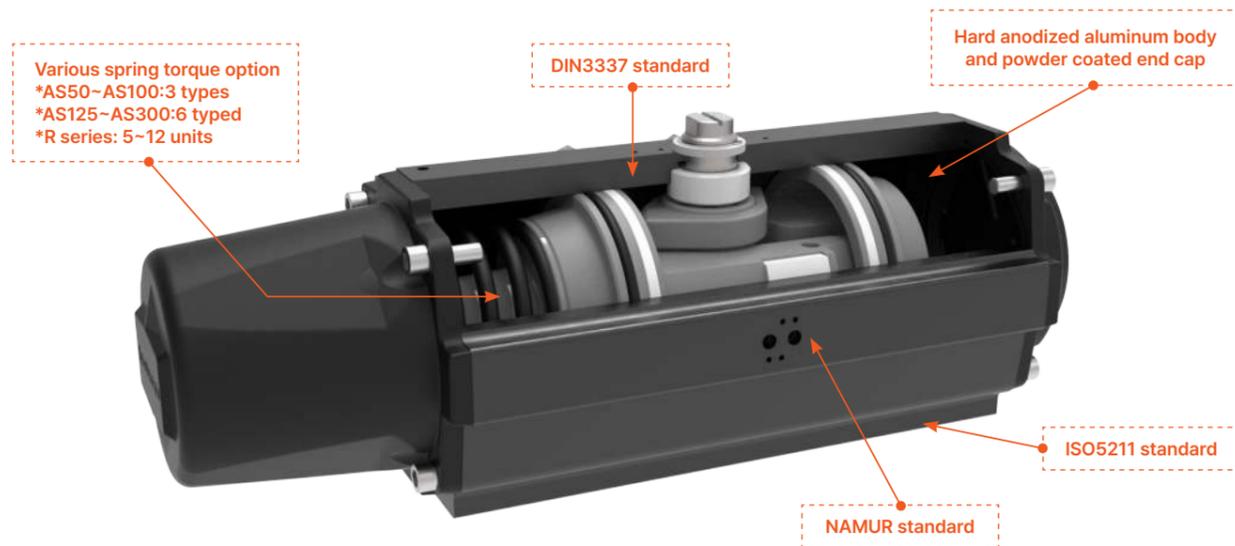
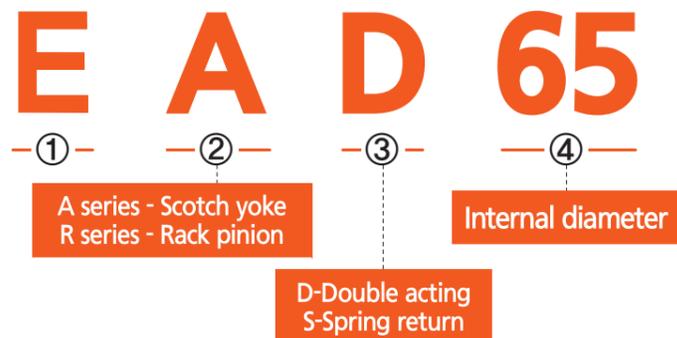


Pneumatic actuator (EA/ER series)

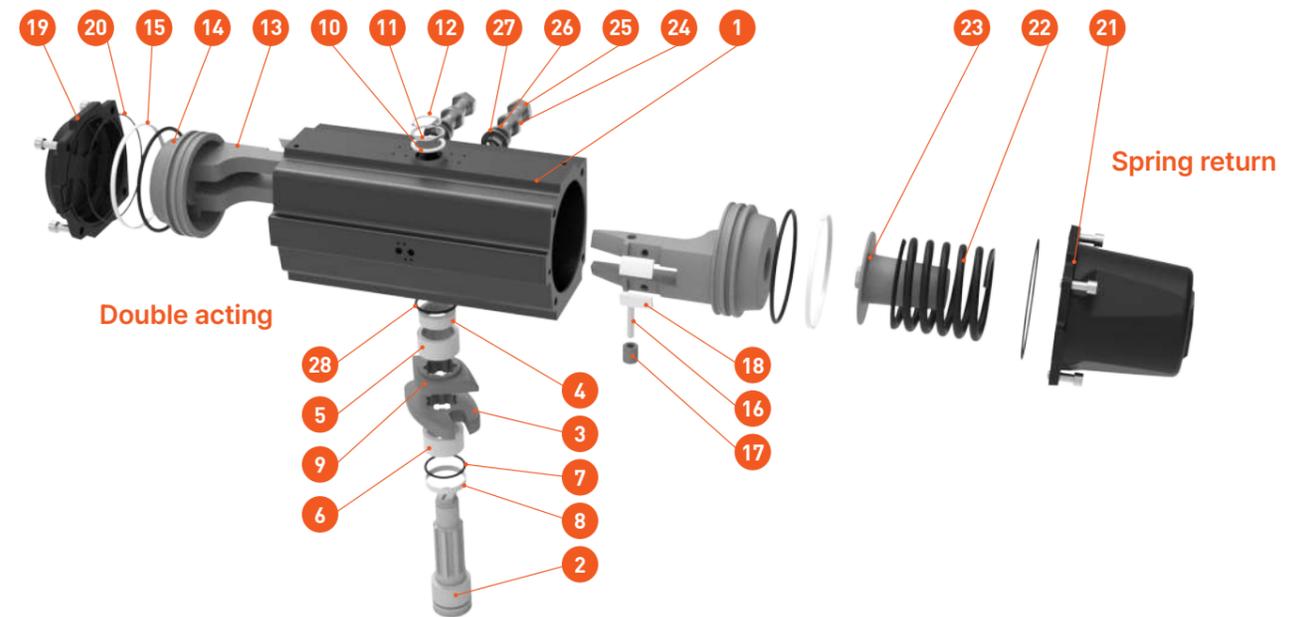


► Model range



AD	125/140/160/210
AS	125/140/160/210
RD	52/63/75/83/92/105/125/140/160/190/210/240
RS	52/63/75/83/92/105/125/140/160/190/210/240

► Part list

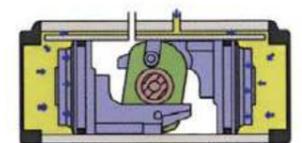


- | | | |
|-----------------------------|-----------------------|-----------------------|
| 1. Body | 11. Body Washer(Top) | 21. SR type End Cover |
| 2. Shaft | 12. Body Snap-ring | 22. Spring |
| 3. Crank | 13. Piston | 23. Spring Cap |
| 4. Shaft Spacer(TOP) | 14. Piston O-ring | 24. Stopper Nut |
| 5. Shaft Roller (TOP) | 15. Piston Guide-ring | 25. Stopper Bolt |
| 6. Shaft Rolle(Bottom) | 16. Piston Pin | 26. Stopper Washer |
| 7. Body O-ring(Bottom) | 17. Piston Roller | 27. Stopper O-ring |
| 8. Shaft guide ring(Bottom) | 18. Piston Pad | 28. Body O-ring (Top) |
| 9. Stopper | 19. D type End Cap | |
| 10. Body Spacer (Top) | 20. End Cap O-ring | |

► Technical data

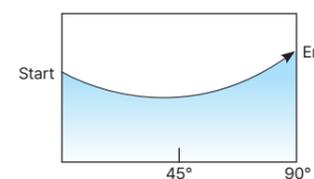
Scotch-Yoke Type

- Smooth on/off with the torque curve synchronized with valves
- Relatively higher torque than the same model in Rack & Pinion type

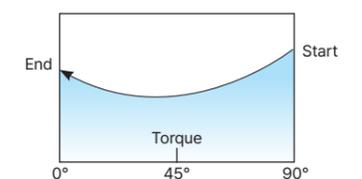
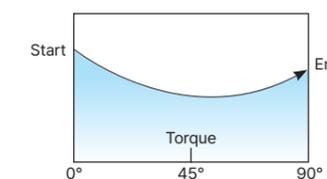


Torque Diagram

Double acting actuators

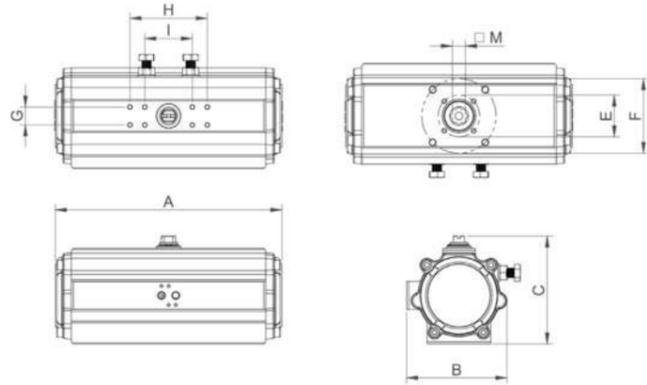


Single acting actuators



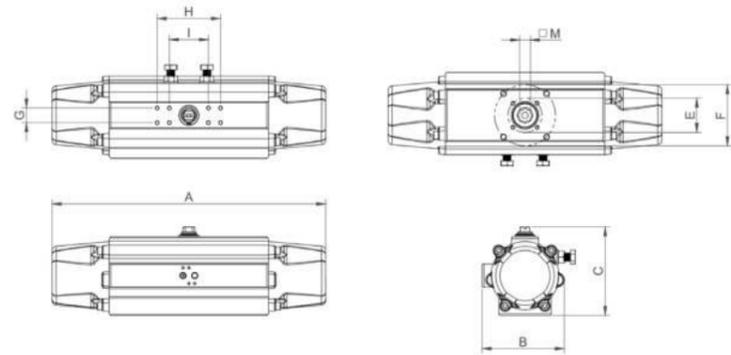
► Dimension table

- EA Type : Scotch yoke type(double acting/Spring return)
- DOUBLE ACTING



MODEL	A	B	C	Valve mounting		G	H / I	Stem Dia.		Air port
				E	F			Top mounting	M	
EAD-125	366	168	180	∅ 102 (4-M10)	∅ 125 (4-M12)	30	130 / 80	22	41	1/4"
EAD-140	432	176	200	∅ 102 (4-M10)	∅ 125 (4-M12)	30	130 / 80	27	48	1/4"
EAD-160	490	195	230	∅ 102 (4-M10)	∅ 140 (4-M16)	30	130 / 80	36	55	1/4"
EAD-210	655	258	300	∅ 125 (4-M12)	∅ 165 (4-M20)	30	130 / 80	46	62	1/4"

- SPRING RETURN



MODEL	A	B	C	Valve mounting		G	H / I	Stem Dia.		Air port
				E	F			Top mounting	M	
EAS-125	547	167	180	∅ 102 (4-M10)	∅ 125 (4-M12)	30	130 / 80	22	41	1/4"
EAS-140	640	176	200	∅ 102 (4-M10)	∅ 125 (4-M12)	30	130 / 80	27	48	1/4"
EAS-160	731	195	230	∅ 102 (4-M10)	∅ 140 (4-M16)	30	130 / 80	36	55	1/4"
EAS-210	973	258	300	∅ 125 (4-M12)	∅ 165 (4-M20)	30	130 / 80	46	62	1/4"

► EAD series Torque table

※ Unit : Nm

MODEL	Angle	Air supply pressure (Unit ; bar)				
		3	4	5	6	7
EAD-125	0°	411.4	548.5	685.6	822.7	959.8
	45°	185.0	246.6	308.3	370.0	431.6
	90°	394.3	525.7	657.2	788.6	920.0
EAD-140	0°	680.8	907.7	1,134.6	1,361.6	1,588.5
	45°	275.5	367.4	459.2	551.0	642.9
	90°	669.9	893.2	1,116.6	1,339.9	1,563.2
EAD-160	0°	994.9	1,326.5	1,658.1	1,989.8	2,321.4
	45°	401.3	535.1	668.9	802.7	936.5
	90°	971.6	1,295.5	1,619.4	1,943.3	2,267.1
EAD-210	0°	2,284.0	2,053.7	3,806.7	4,568.0	5,329.4
	45°	923.2	1,230.9	1,538.7	1,846.4	2,154.1
	90°	2,241.1	2,093.0	3,735.2	4,482.2	4,754.2

► EAS series Torque table

※ Unit : Nm

MODEL	Spring unit	Angle	Air supply pressure (Unit ; bar)							Spring to Close
			3	4	4.5	5	6	7	8	
EAS-125	Weak	0°	151.8	253.1	303.7	354.3	455.5	556.8	658.0	151.9
		45°	52.0	104.9	131.4	157.8	210.8	263.7	316.6	106.8
		90°	50.7	160.0	214.6	269.3	378.6	487.9	597.2	277.2
	Middle	0°	95.5	196.8	247.4	298.0	399.3	500.5	601.7	208.2
		45°	12.4	65.3	91.8	118.3	171.2	224.1	277.1	146.4
		90°	-	57.3	111.9	166.6	275.9	385.2	494.4	379.9
	Strong	0°	75.9	177.1	227.7	278.4	379.6	480.8	582.1	227.8
		45°	-	51.5	78.0	104.4	157.4	210.3	263.2	160.2
		90°	-	21.4	76.1	130.7	240.0	349.3	458.6	415.7
EAS-140	Weak	0°	216.7	368.3	444.2	520.0	671.7	823.4	975.1	238.4
		45°	77.3	155.4	194.4	233.4	311.4	389.4	467.4	156.7
		90°	87.0	244.0	322.6	401.1	558.1	715.2	872.2	384.1
	Middle	0°	127.9	279.5	355.4	431.2	582.9	734.6	886.3	327.2
		45°	18.9	97.0	136.0	175.0	253.0	331.0	409.0	215.1
		90°	-	153.6	232.2	310.7	467.7	624.8	781.8	474.5
	Strong	0°	98.3	250.0	325.8	401.6	553.3	705.0	856.7	356.8
		45°	-	77.5	116.0	155.5	233.5	311.6	389.6	234.6
		90°	-	53.2	131.8	210.3	367.3	524.4	681.4	575.0
EAS-160	Weak	0°	313.2	532.7	642.4	752.1	971.5	1191.0	1410.4	345.1
		45°	112.8	226.5	283.4	340.3	454.1	567.8	681.6	228.5
		90°	127.6	357.1	471.9	586.7	816.0	1045.9	1275.4	561.2
	Middle	0°	182.3	401.7	511.4	621.2	840.6	1060.1	1279.5	476.1
		45°	26.1	139.9	196.7	253.6	367.4	481.1	594.9	315.2
		90°	-	144.2	259.0	373.8	603.4	833.0	1062.5	774.1
	Strong	0°	141.5	361.0	470.7	580.4	799.9	1019.3	1238.7	516.8
		45°	-	112.9	169.8	226.6	340.4	454.1	567.9	342.1
		90°	-	78.0	192.8	307.6	537.1	766.7	996.3	840.3
EAS-210	Weak	0°	672.6	1179.1	1432.3	1685.6	2192.1	2698.6	3205.1	847.0
		45°	258.9	520.4	651.1	781.9	1043.4	1304.9	1566.4	525.7
		90°	343.1	869.3	1132.4	1395.5	1921.8	2448.0	2974.2	1235.6
	Middle	0°	358.2	864.7	1118.0	1371.2	1877.7	2384.3	2890.8	1161.3
		45°	63.8	325.3	456.0	586.8	848.3	1109.8	1371.3	720.8
		90°	-	410.7	673.8	936.9	1463.1	1989.4	2515.6	1694.3
	Strong	0°	250.7	757.2	1010.5	1263.8	1770.3	2276.8	2783.3	1268.8
		45°	-	258.6	389.3	520.1	781.6	1043.1	1304.6	787.5
		90°	-	253.9	517.0	780.1	1306.3	1832.6	2358.8	1851.1

► EA Air Consumption

● EAD Air Consumption

※ Unit : Liter (ℓ)

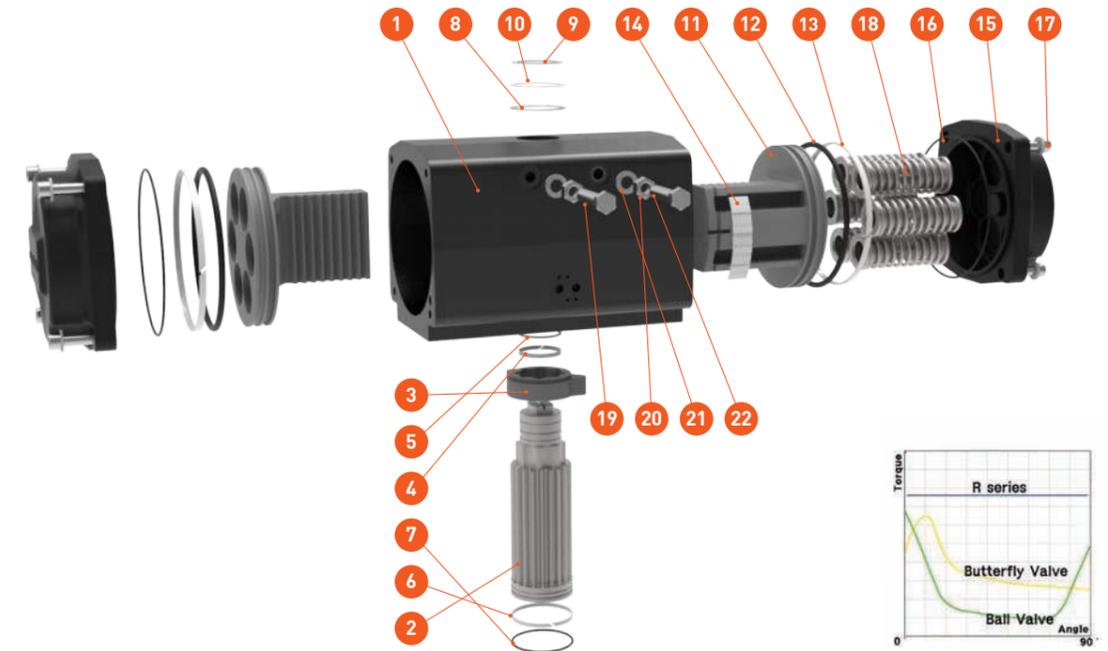
MODEL	Volume	4	4.5	5	5.6	6	7
EAD 125	5.5	25.8	28.3	30.9	34.0	36.1	41.2
EAD 140	9.6	45.0	49.5	54.0	59.4	63.0	72.0
EAD 160	12.3	57.6	63.4	69.1	76.1	80.7	92.2
EAD 210	24.6	115.2	126.7	138.3	152.1	161.3	184.4

● EAS Air Consumption

※ Unit : Liter (ℓ)

MODEL	Volume	4	4.5	5	5.6	6	7
EAS 125	7.7	36.1	39.7	43.3	47.6	50.5	57.7
EAS 140	10.6	49.6	54.6	59.6	65.5	69.5	79.5
EAS 160	16.4	76.8	84.5	92.2	101.4	107.6	122.9
EAS 210	34.8	163.0	179.3	195.6	215.2	228.2	260.9

► Part list



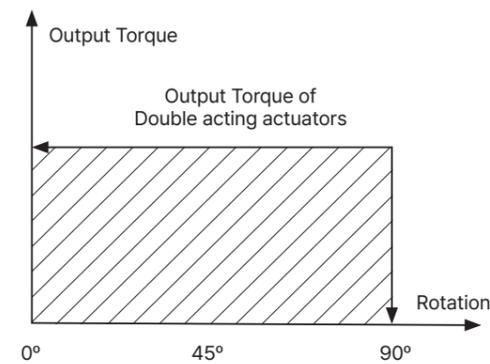
- 1. Body
- 2. Shaft
- 3. Stopper
- 4. Bushing (Top)
- 5. Body O-ring (Top)
- 6. Bushing (Bottom)
- 7. Body O-ring (Bottom)
- 8. Body Washer (Bottom)

- 9. Body Washer (Top)
- 10. Body Snap-ring
- 11. Piston
- 12. Piston O-ring
- 13. Piston Guide-ring
- 14. Piston Pad
- 15. End Cap
- 16. End Cap O-ring

- 17. End Cap Screw
- 18. Spring Unit
- 19. Stopper Screw
- 20. Stopper O-ring
- 21. Stopper Washer
- 22. Stopper Nut

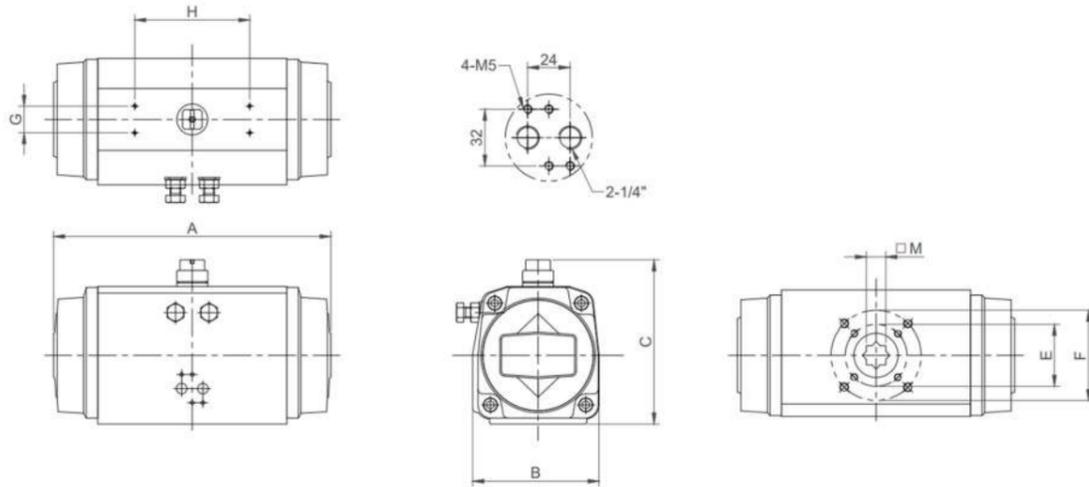
► Output Torque

● For Double Acting Actuator



► Dimension table

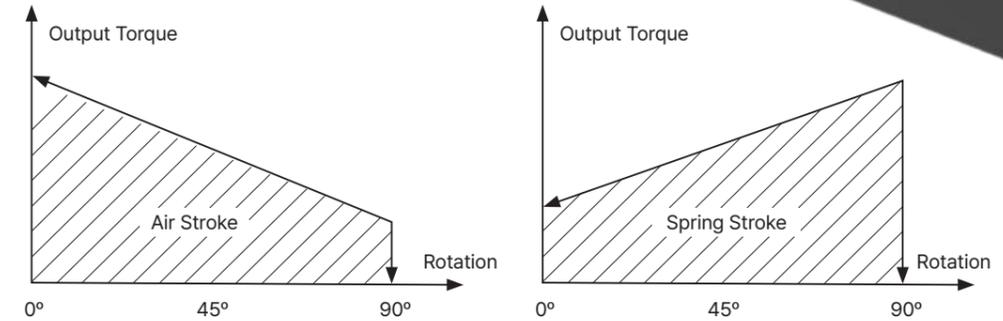
- ER Type : Rack Pinion(double acting/Spring return)
- DOUBLE & SINGLE ACTING



MODEL	A	B	C	Valve mounting		Top mounting		Stem Dia.		Air port
				E	F	G	H	M	N	
ERD(S)-052	150	76	93	Ø 36 (4-M5)	Ø 50 (4-M6)	30	80	11	14	1/4"
ERD(S)-063	170	85	109	Ø 50 (4-M6)	Ø 70 (4-M8)	30	80	14	18	1/4"
ERD(S)-075	190	100	122	Ø 50 (4-M6)	Ø 70 (4-M8)	30	80	14	18	1/4"
ERD(S)-083	205	110	131	Ø 50 (4-M6)	Ø 70 (4-M8)	30	80	17	21	1/4"
ERD(S)-092	265	120	139	Ø 50 (4-M6)	Ø 70 (4-M8)	30	80	17	21	1/4"
ERD(S)-105	270	125	155	Ø 70 (4-M8)	Ø 102 (4-M10)	30	80	22	26	1/4"
ERD(S)-125	305	140	186	Ø 70 (4-M8)	Ø 102 (4-M10)	30	130	22	26	1/4"
ERD(S)-140	395	160	203	Ø 102 (4-M10)	Ø 125 (4-M12)	30	130	27	31	1/4"
ERD(S)-160	460	180	228	Ø 102 (4-M10)	Ø 125 (4-M12)	30	130	27	31	1/4"
ERD(S)-190	530	210	260	-	Ø 140 (4-M16)	30	130	36	40	1/4"
ERD(S)-210	535	230	285	-	Ø 140 (4-M16)	30	130	36	40	1/4"
ERD(S)-240	605	245	319	-	Ø 165 (4-M20)	30	130	46	50	1/4"

► Output Torque

- For Single Acting Actuator



- ERD Actuator Torque table

※ Unit : Nm

MODEL	Air supply pressure (Unit ; bar)					
	3	4	5	6	7	8
ERD-052	11.9	15.8	19.7	23.7	27.8	31.6
ERD-063	21.6	28.8	36.2	43.8	51.4	58.5
ERD-075	29.6	40.1	50.2	60.7	69.9	80.9
ERD-083	47.2	63.2	78.4	94.6	110.6	125.2
ERD-092	68.3	90.2	113.4	134.6	157.7	180.8
ERD-105	99.2	132.4	164.2	198.6	231.4	264.5
ERD-125	150.8	199.1	251.4	301.7	351.2	400.4
ERD-140	256.4	342.8	427.3	513.7	598.4	684.6
ERD-160	398.4	532.4	665.5	798.8	931.4	1064.4
ERD-190	637.7	850.9	1064.4	1277.5	1490.3	1702.2
ERD-210	798.1	1064.5	1330.5	1596.5	1861.2	2129.4
ERD-240	1154.8	1539.4	1924.0	2308.4	2693.2	3078.1

• ERS Actuator Torque table

※ Unit : Nm

MODEL	Spring Qty'	Air supply pressure (Unit ; bar)												Springs' output	
		3		4		5		6		7		8			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
ERS-052	5	7.6	5.7	-	-	-	-	-	-	-	-	-	-	4.3	6.2
	6	6.9	4.5	10.9	8.5	-	-	-	-	-	-	-	-	5.0	7.4
	7	6.0	3.3	9.8	7.3	14.0	10.4	-	-	-	-	-	-	5.9	8.6
	8	5.2	2.0	9.2	6.0	13.2	9.1	17.2	14.1	-	-	-	-	6.7	9.9
	9	4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8	-	-	7.6	11.1
	10	-	-	7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6	-	-	8.5	12.4
	11	-	-	6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	22.6	18.3	9.3	13.6
	12	-	-	-	-	9.7	4.2	13.8	9.1	17.8	12.2	21.8	17.1	10.2	14.8
ERS-063	5	15.0	11.4	22.3	14.9	-	-	-	-	-	-	-	-	6.8	10.4
	6	13.6	9.3	20.9	16.6	28.3	23.9	-	-	-	-	-	-	8.2	12.5
	7	12.5	7.2	19.5	14.5	26.8	21.9	-	-	-	-	-	-	9.6	14.6
	8	10.9	5.1	18.2	12.4	25.5	19.8	32.8	27.0	40.1	34.3	-	-	10.9	16.7
	9	-	-	16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2	-	-	12.3	18.8
	10	-	-	1.4	8.2	22.8	15.6	30.0	22.8	37.3	30.1	44.7	37.4	13.7	20.9
	11	-	-	-	-	21.5	13.5	28.7	20.7	36.0	28.0	43.3	35.3	15.0	22.9
	12	-	-	-	-	20.0	11.4	27.3	18.6	34.6	25.9	41.9	33.3	16.4	25.0
ERS-075	5	19.4	15.5	29.5	25.7	-	-	-	-	-	-	-	-	10.5	14.5
	6	17.3	12.6	27.4	22.7	37.5	32.8	-	-	-	-	-	-	12.7	17.4
	7	15.2	9.7	25.3	19.9	35.4	29.9	-	-	-	-	-	-	14.8	20.3
	8	13.1	6.8	23.1	16.9	33.3	27.0	43.2	37.0	53.3	47.0	-	-	16.9	23.2
	9	-	-	21.0	14.1	31.2	24.1	41.1	34.1	51.2	44.2	-	-	19.0	26.1
	10	-	-	19.0	11.1	28.8	21.2	39.0	31.2	49.1	41.2	59.1	51.2	21.1	29.0
	11	-	-	-	-	27.0	18.3	37.0	28.3	47.0	38.4	57.0	48.4	23.2	31.9
	12	-	-	-	-	24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	25.3	34.7
ERS-083	5	31.1	24.0	46.8	39.7	-	-	-	-	-	-	-	-	15.8	23.0
	6	28.0	19.3	43.7	35.1	59.4	50.7	-	-	-	-	-	-	19.0	27.6
	7	24.8	14.8	40.5	30.5	56.2	46.2	-	-	-	-	-	-	22.1	32.2
	8	21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9	-	-	25.3	36.8
	9	-	-	34.2	21.3	49.9	37.0	65.6	52.6	81.2	68.3	-	-	28.5	41.4
	10	-	-	31.0	16.6	46.7	32.3	62.4	48.0	78.1	63.7	93.8	79.3	31.6	46.0
	11	-	-	-	-	43.6	27.7	59.3	43.4	75.0	59.1	90.6	74.8	34.8	50.6
	12	-	-	-	-	40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	38.0	55.2
ERS-092	5	44.2	33.2	66.8	55.9	-	-	-	-	-	-	-	-	23.3	34.4
	6	39.6	26.4	62.2	49.0	84.8	71.6	-	-	-	-	-	-	28.0	41.2
	7	34.9	19.4	57.5	42.1	80.2	64.7	-	-	-	-	-	-	32.7	48.1
	8	31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103.0	-	-	37.3	55.0
	9	-	-	48.2	28.4	70.9	51.0	93.5	73.6	116.0	96.1	-	-	42.0	61.9
	10	-	-	43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134.0	111.8	46.7	68.7
	11	-	-	-	-	61.5	37.2	84.1	59.9	106.6	82.4	129.2	105.0	51.4	75.6
	12	-	-	-	-	56.8	30.4	79.4	53.0	101.9	75.5	124.5	98.1	56.0	82.5
ERS-105	5	67.5	49.9	100.6	83.0	-	-	-	-	-	-	-	-	31.6	49.2
	6	61.1	40.0	94.2	73.2	127.3	106.2	-	-	-	-	-	-	38.0	59.1
	7	54.9	30.3	87.9	63.4	121.0	96.4	-	-	-	-	-	-	44.3	68.9
	8	48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7	-	-	50.6	78.7
	9	-	-	75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9	-	-	56.9	88.6
	10	-	-	68.9	33.4	102.0	66.5	135.1	99.6	168.2	132.6	201.2	165.7	63.3	98.4
	11	-	-	-	-	95.7	57.0	128.7	90.1	161.8	123.1	194.8	156.2	69.6	108.3
	12	-	-	-	-	89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	75.9	118.1

※ Unit : Nm

MODEL	Spring Qty'	Air supply pressure (Unit ; bar)												Springs' output		
		3		4		5		6		7		8				
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
ERS-125	5	98.0	72.0	148.0	122.0	-	-	-	-	-	-	-	-	52.0	79.0	
	6	88.0	56.0	138.0	107.0	188.0	157.0	-	-	-	-	-	-	63.0	94.0	
	7	77.0	40.0	127.0	90.0	178.0	141.0	-	-	-	-	-	-	73.0	110.0	
	8	67.0	25.0	117.0	75.0	167.0	125.0	217.0	176.0	268.0	226.0	-	-	84.0	125.0	
	9	-	-	107.0	59.0	157.0	109.0	207.0	159.0	257.0	210.0	-	-	94.0	141.0	
	10	-	-	96.0	44.0	146.0	94.0	196.0	144.0	247.0	194.0	297.0	245.0	105.0	157.0	
	11	-	-	-	-	136.0	78.0	186.0	128.0	236.0	178.0	286.0	228.0	115.0	173.0	
	12	-	-	-	-	125.0	63.0	176.0	113.0	226.0	163.0	276.0	213.0	125.0	188.0	
	ERS-140	5	171.0	127.0	256.0	213.0	-	-	-	-	-	-	-	-	86.0	129.0
		6	154.0	102.0	239.0	187.0	325.0	273.0	-	-	-	-	-	-	103.0	155.0
		7	137.0	76.0	222.0	162.0	308.0	247.0	-	-	-	-	-	-	120.0	181.0
		8	120.0	50.0	205.0	136.0	291.0	221.0	376.0	307.0	462.0	392.0	-	-	137.0	206.0
9		-	-	187.0	110.0	273.0	196.0	358.0	281.0	444.0	367.0	-	-	155.0	232.0	
10		-	-	170.0	84.0	256.0	169.0	341.0	255.0	427.0	340.0	512.0	426.0	172.0	258.0	
11		-	-	-	-	238.0	143.0	324.0	229.0	409.0	314.0	495.0	400.0	189.0	284.0	
12		-	-	-	-	221.0	118.0	307.0	203.0	392.0	289.0	478.0	374.0	206.0	310.0	
ERS-160		5	259.0	191.0	391.0	324.0	-	-	-	-	-	-	-	-	140.0	208.0
		6	232.0	149.0	365.0	282.0	498.0	415.0	-	-	-	-	-	-	168.0	250.0
		7	203.0	107.0	336.0	240.0	469.0	373.0	-	-	-	-	-	-	196.0	292.0
		8	176.0	66.0	309.0	199.0	442.0	337.0	575.0	465.0	708.0	598.0	-	-	223.0	333.0
	9	-	-	280.0	157.0	413.0	290.0	546.0	423.0	679.0	556.0	-	-	251.0	375.0	
	10	-	-	253.0	115.0	386.0	248.0	519.0	381.0	652.0	514.0	785.0	647.0	279.0	417.0	
	11	-	-	-	-	358.0	207.0	491.0	340.0	624.0	473.0	757.0	606.0	307.0	458.0	
	12	-	-	-	-	330.0	165.0	463.0	298.0	596.0	431.0	729.0	564.0	335.0	500.0	
	ERS-190	5	438.0	329.0	651.0	542.0	-	-	-	-	-	-	-	-	200.0	309.0
		6	398.0	267.0	611.0	480.0	824.0	693.0	-	-	-	-	-	-	240.0	371.0
		7	358.0	205.0	571.0	418.0	784.0	631.0	-	-	-	-	-	-	280.0	433.0
		8	318.0	143.0	531.0	356.0	744.0	569.0	957.0	782.0	1169.0	995.0	-	-	320.0	495.0
9		-	-	491.0	295.0	704.0	507.0	917.0	720.0	1130.0	933.0	-	-	360.0	557.0	
10		-	-	451.0	233.0	664.0	446.0	877.0	658.0	1090.0	871.0	1302.0	1084.0	400.0	618.0	
11		-	-	-	-	624.0	384.0	837.0	597.0	1050.0	809.0	1263.0	1022.0	440.0	680.0	
12		-	-	-	-	584.0	322.0	797.0	535.0	1010.0	748.0	1223.0	960.0	480.0	742.0	
ERS-210		5	523.0	418.0	789.0	684.0	-	-	-	-	-	-	-	-	275.0	380.0
		6	468.0	342.0	734.0	608.0	1000.0	874.0	-	-	-	-	-	-	330.0	456.0
		7	413.0	266.0	679.0	532.0	945.0	798.0	-	-	-	-	-	-	385.0	532.0
		8	358.0	190.0	624.0	456.0	890.0	722.0	1156.0	988.0	1422.0	1254.0	-	-	440.0	608.0
	9	-	-	569.0	380.0	835.0	646.0	1101.0	912.0	1367.0	1178.0	-	-	495.0	684.0	
	10	-	-	514.0	304.0	780.0	570.0	1046.0	836.0	1312.0	1102.0	1578.0	1368.0	550.0	760.0	
	11	-	-	-	-	725.0	494.0	991.0	760.0	1257.0	1026.0	1523.0	1292.0	605.0	836.0	
	12	-	-	-	-	670.0	418.0	936.0	684.0	1202.0	950.0	1468.0	1216.0	660.0	912.0	
	ERS-240	5	744.0	600.0	1129.0	985.0	-	-	-	-	-	-	-	-	410.0	554.0
		6	662.0	489.0	1047.0	874.0	1432.0	1259.0	-	-	-	-	-	-	492.0	665.0
		7	580.0	379.0	964.0	764.0	1349.0	1149.0	-	-	-	-	-	-	575.0	775.0
		8	498.0	268.0	883.0	653.0	1267.0	1037.0	1652.0	1422.0	2037.0	1807.0	-	-	656.0	886.0
9		-	-	800.0	542.0	1185.0	926.0	1569.0								

► ER Air Consumption

● ERD Air Consumption

※ Unit : Liter (ℓ)

MODEL	Volume	4	4.5	5	5.6	6	7
ERD 52	0.4	1.9	2.1	2.2	2.5	2.6	3.0
ERD 63	0.5	2.3	2.6	2.8	3.1	3.3	3.7
ERD 75	0.8	3.7	4.1	4.5	4.9	5.2	6.0
ERD 83	1.2	5.6	6.2	6.7	7.4	7.9	9.0
ERD 92	1.6	7.5	8.2	9.0	9.9	10.5	12.0
ERD 105	2	9.4	10.3	11.2	12.4	13.1	15.0
ERD 125	3.8	17.8	19.6	21.4	23.5	24.9	28.5
ERD 140	6	28.1	30.9	33.7	37.1	39.3	45.0
ERD 160	7.4	34.7	38.1	41.6	45.8	48.5	55.5
ERD 190	15	70.2	77.3	84.3	92.7	98.4	112.4
ERD 210	16.1	75.4	82.9	90.5	99.5	105.6	120.7
ERD 240	30.1	141.0	155.1	169.2	186.1	197.4	225.6

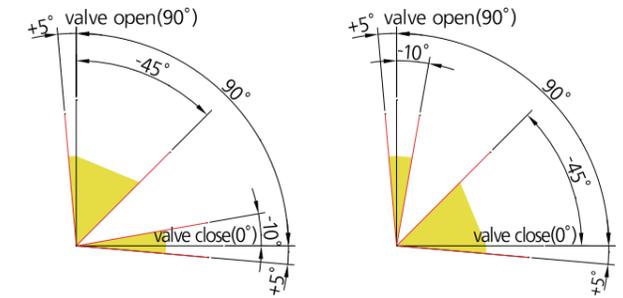
● ERS Air Consumption

※ Unit : Liter (ℓ)

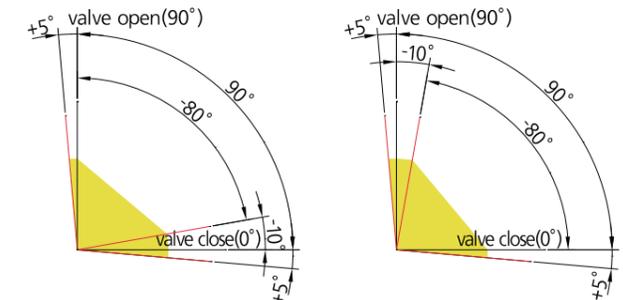
MODEL	Volume	4	4.5	5	5.6	6	7
ERS 52	0.2	0.9	1.0	1.1	1.2	1.3	1.5
ERS 63	0.3	1.4	1.5	1.7	1.9	2.0	2.2
ERS 75	0.6	2.8	3.1	3.4	3.7	3.9	4.5
ERS 83	0.4	1.9	2.1	2.2	2.5	2.6	3.0
ERS 92	0.6	2.8	3.1	3.4	3.7	3.9	4.5
ERS 105	0.8	3.7	4.1	4.5	4.9	5.2	6.0
ERS 125	1.5	7.0	7.7	8.4	9.3	9.8	11.2
ERS 140	2.3	10.8	11.8	12.9	14.2	15.1	17.2
ERS 160	3.2	15.0	16.5	18.0	19.8	21.0	24.0
ERS 190	5.7	26.7	29.4	32.0	35.2	37.4	42.7
ERS 210	7.8	36.5	40.2	43.8	48.2	51.2	58.5
ERS 240	12	56.2	61.8	67.4	74.2	78.7	90.0

● Stopper

[Center stopper]



[End cap stopper]



[Center stopper]

