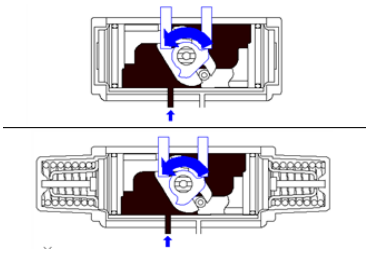
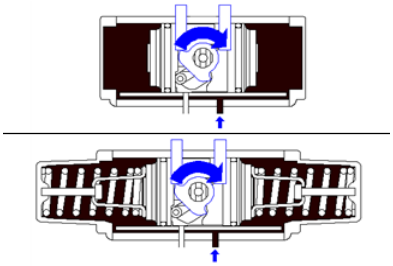
Air cunsumption (A series)

The air consumption of actuator is calculated by below. (P=air pressures/N=no. of oeprating)

Double acting		
$\Rightarrow V=(A+B)*\left(\frac{P+1}{1}\right)*N$		
Spring return		
$\Rightarrow V=A*\left(\frac{P+1}{1}\right)*N$	Close "A"	Open "B"

■ Double Acting

(unit:Liter)

Model	Volume(A)	Volume(B)	3bar	4bar	5bar	6bar	7bar	8bar
AD50	0.20	0.15	1.4	1.8	2.1	2.5	2.8	3.2
AD65	0.42	0.32	3.0	3.7	4.4	5.2	5.9	6.7
AD80	0.84	0.64	5.9	7.4	8.9	10.4	11.8	13.3
AD100	1.58	1.20	11.1	13.9	16.7	19.5	22.2	25.0
AD125	3.17	2.23	21.6	27.0	32.4	37.8	43.2	48.6
AD140	4.41	3.35	31.0	38.8	46.6	54.3	62.1	69.8
AD160	6.95	5.06	48.0	60.1	72.1	84.1	96.1	108.1
AD185	10.26	7.61	71.5	89.4	107.2	125.1	143.0	160.8
AD210	14.34	10.38	98.9	123.6	148.3	173.0	197.8	222.5
AD250	25.10	18.17	173.1	216.4	259.6	302.9	346.2	389.4
AD300	40.82	32.37	292.8	366.0	439.1	512.3	585.5	658.7

■ Single Acting

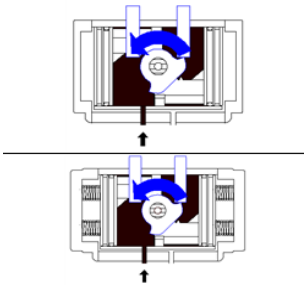
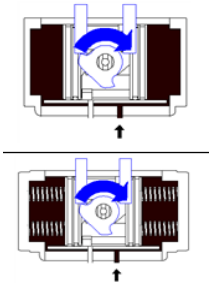
(unit:Liter)

Model	Volume(A)	Volume(B)	3bar	4bar	5bar	6bar	7bar	8bar
AS50	0.20	0.25	0.8	1.0	1.2	1.4	1.6	1.8
AS65	0.42	0.56	1.7	2.1	2.5	2.9	3.4	3.8
AS80	0.84	1.27	3.4	4.2	5.0	5.9	6.7	7.6
AS100	1.58	2.29	6.3	7.9	9.5	11.1	12.6	14.2
AS125	3.17	4.52	12.7	15.9	19.0	22.2	25.4	28.5
AS140	4.41	6.16	17.6	22.1	26.5	30.9	35.3	39.7
AS160	6.95	9.53	27.8	34.8	41.7	48.7	55.6	62.6
AS185	10.26	14.49	41.0	51.3	61.6	71.8	82.1	92.3
AS210	14.34	20.36	57.4	71.7	86.0	100.4	114.7	129.1
AS250	25.10	32.10	100.4	125.5	150.6	175.7	200.8	225.9
AS300	40.82	60.25	163.3	204.1	244.9	285.7	326.6	367.4

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Air cunsumption (R series)

The air consumption of actuator is calculated by below. (P=air pressures/N=no. of oeprating)

Double acting		
$\Rightarrow V=(A+B)*\left(\frac{P+1}{1}\right)*N$		
Spring return		
$\Rightarrow V=A*\left(\frac{P+1}{1}\right)*N$	Close "A"	Open "B"

■ Double Acting

(unit:Liter)

Model	Volume(A)	Volume(B)	3bar	4bar	5bar	6bar	7bar	8bar
RD32								
RD40	0.05	0.06	0.4	0.5	0.6	0.8	0.9	1.0
RD50	0.10	0.11	0.8	1.0	1.2	1.5	1.7	1.9
RD65	0.18	0.20	1.5	1.9	2.3	2.7	3.1	3.5
RD80	0.46	0.48	3.8	4.7	5.6	6.6	7.5	8.4
RD90	0.58	0.59	4.7	5.9	7.0	8.2	9.4	10.5
RD100	0.80	0.95	7.0	8.8	10.5	12.3	14.0	15.8
RD115	1.32	1.62	11.7	14.7	17.6	20.5	23.5	26.4
RD125	1.64	1.95	14.4	18.0	21.5	25.1	28.7	32.3
RD140	2.45	2.62	20.3	25.4	30.4	35.5	40.6	45.6
RD160	3.49	3.89	29.5	36.9	44.3	51.7	59.0	66.4
RD185	4.92	6.20	44.5	55.6	66.7	77.8	88.9	100.1
RD210	7.11	8.39	62.0	77.5	93.0	108.5	124.0	139.5

■ Single Acting

(unit:Liter)

Model	Volume(A)	Volume(B)	3bar	4bar	5bar	6bar	7bar	8bar
RS40	0.05	0.05	0.2	0.2	0.3	0.3	0.4	0.4
RS50	0.10	0.12	0.4	0.5	0.6	0.7	0.8	0.9
RS65	0.18	0.26	0.7	0.9	1.1	1.3	1.5	1.7
RS80	0.46	0.62	1.8	2.3	2.7	3.2	3.7	4.1
RS90	0.58	0.76	2.3	2.9	3.5	4.1	4.6	5.2
RS115	0.80	1.12	3.2	4.0	4.8	5.6	6.4	7.2
RS100	1.32	1.76	5.3	6.6	7.9	9.2	10.5	11.8
RS125	1.64	2.23	6.6	8.2	9.8	11.5	13.1	14.8
RS140	2.45	3.34	9.8	12.3	14.7	17.2	19.6	22.1
RS160	3.49	4.95	14.0	17.5	20.9	24.4	27.9	31.4
RS185	4.92	7.52	19.7	24.6	29.5	34.4	39.3	44.3
RS210	7.11	10.25	28.4	35.6	42.7	49.8	56.9	64.0

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