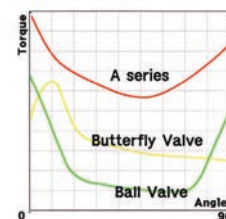
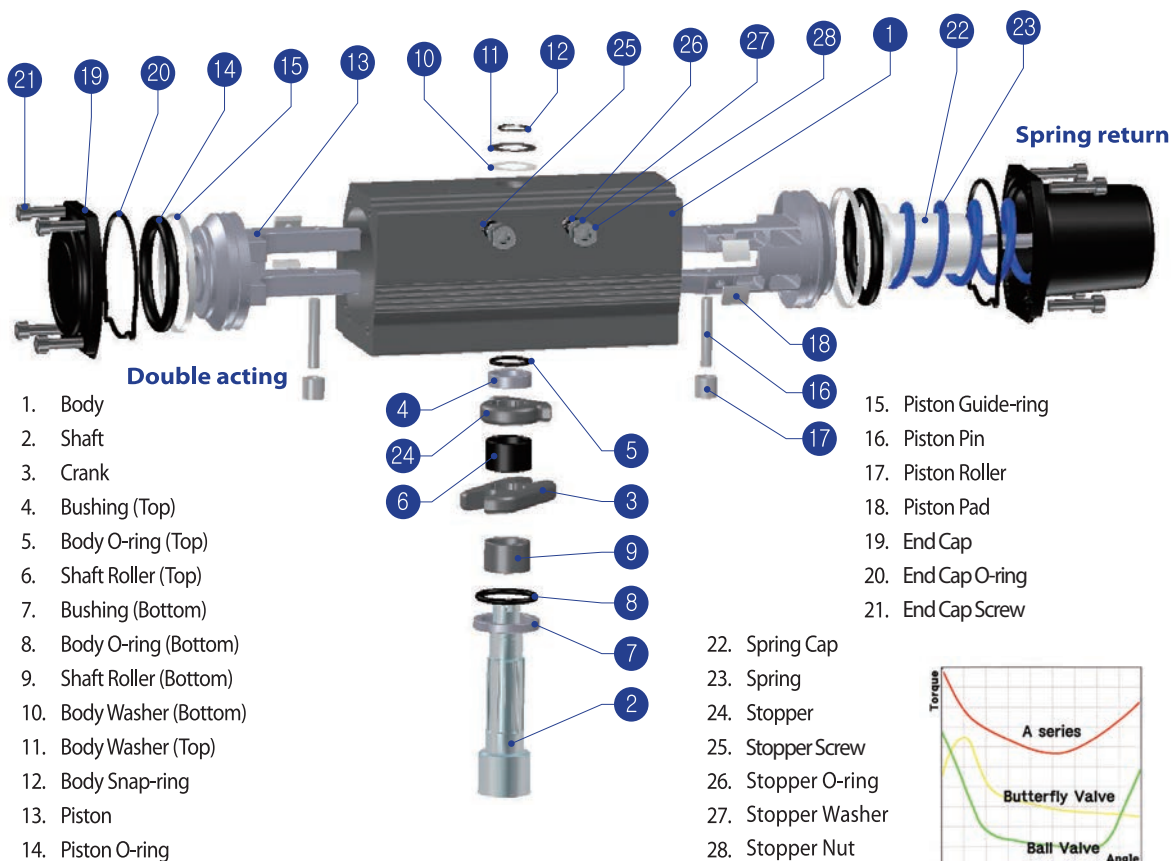
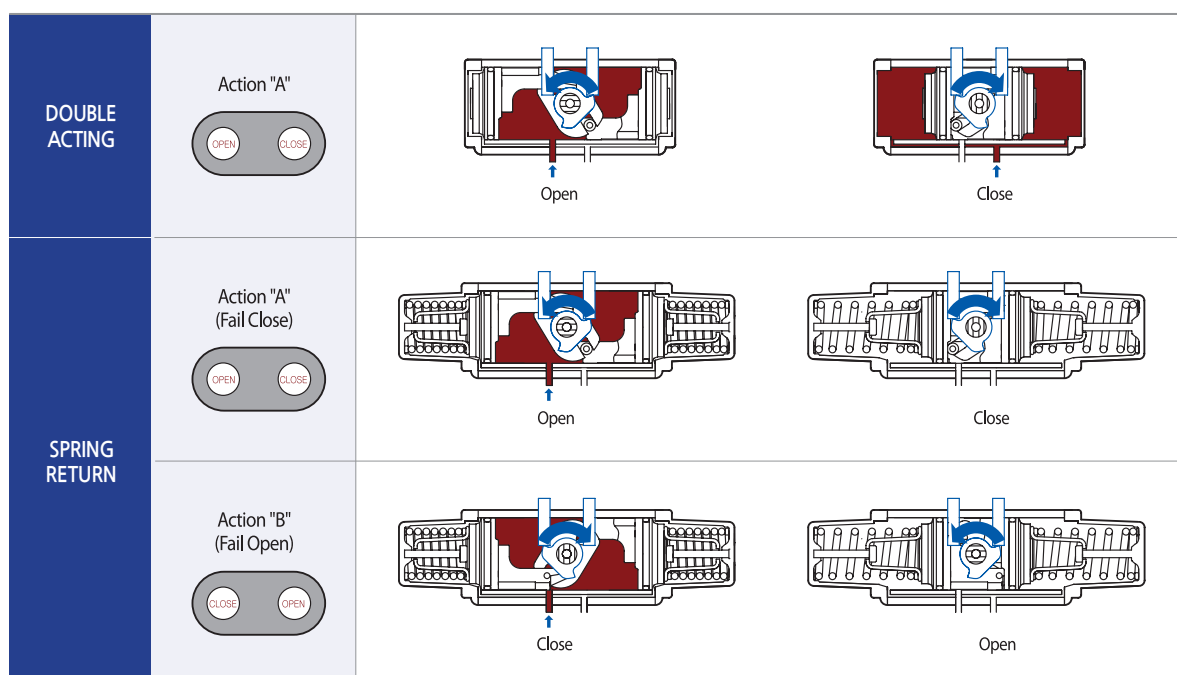


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► Operating mechanism



► Selection guide

Valve Size		Double acting		Spring return	
		Ball valve	Butterfly valve	Ball valve	Butterfly valve
1/2"	15A	AD50		AS50	
3/4"	20A				
1"	25A				
1-1/4"	32A	AD65		AS65	
1-1/2"	40A				AS50
2"	50A		AD50	AS80	
2-1/2"	65A	AD80		AS100	AS65
3"	80A			AS125	
4"	100A		AD65	AS140	AS80
5"	125A	AD125	AD80	AS160	
6"	150A	AD140		AS185	AS100
8"	200A	AD160		AS210	AS125
10"	250A	AD185	AD100	AS250	AS140
12"	300A	AD210		AS300	AS160
14"	350A	AD250			AS185
16"	400A	AD300	AD160		AS210
18"	450A		AD185		AS250
20" ~ 22"	500A ~ 550A		AD210		AS300
24" ~ 32"	600A ~ 800A		AD250		
34" ~ 40"	850A ~ 1000A		AD300		

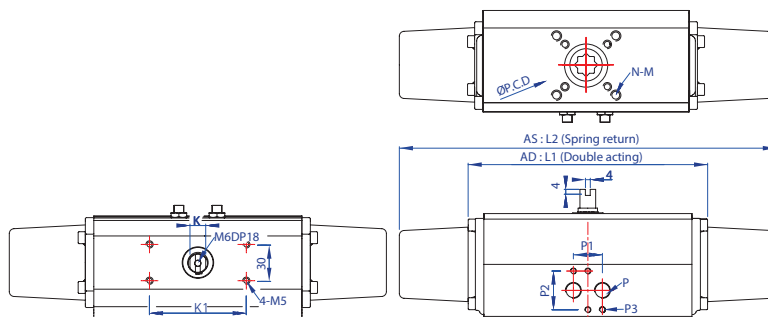
※A350 is in development

•Based on 10K/#150

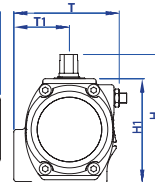
•The above data is for reference only; the actual assembly may be different depending on valve material, pressure, structure, fluid and operational environment.

•The data is not legally effective and therefore should not be used as legal ground.

► Dimension table



MODEL	P	P1	P2	P3
A50~A210	PT1/4	24	32	M5
	PT1/4	24	32	M5
A250/A300	#PT3/8	40	45	M6
	#PT1/2	40	45	M6



MOUNT IMAGE

※Unit:mm

MODEL	K1	ISO	P.C.D (ø)	N-G (depth)	K	AD L1	AS L2	T	T1	H	H1	CH	Stem depth	AD WG(Kg)	AS WG(Kg)
A50	80	F03/F05/F07	36/50/70	4-M5/M6/M8 (10/12/12.5)	9	162	257	75	40	90	70	11*11	13	1.4	1.6
												#14*14	14		
												#9.7*Ø15	14		
A65	80	F05/F07	50/70	4-M6/M8 (14/14)	13	202	314	89	46	107	87	14*14	17	2.3	3.0
												#11*11	13		
												#11.7*Ø17	17		
A80	80	F07	70	4-M8(15)	13	253	421	101	49.5	126	106	#9.7*Ø15	14	3.9	5.3
												17*17	19		
												#14.7*Ø19	20		
A100	80	F07/F10	70/102	4-M8/M10 (16/19)	19	311	500	129	61.5	148	128	22*22	26	6.7	9.5
												#17.7*Ø22	26		
A125	80	F07/F10	70/102	4-M8/M10 (16/19)	19	390	606	151	71.5	174	154	22*22	26	11.3	17.6
A140	80	F10/F12	102/125	4-M10/M12 (18/26)	24	431	682	164	77	192	172	27*27	30	16.4	23.9
												#22*22			
A160	80	F14	140	4-M16(25)	24	506	781	188	89	216	196	36*36	38	23.7	36.6
		#F10/F12	#102/125	4-M10/M12 (18/26)								#27*27	27		
A185	80/130	F14	140	4-M16(26)	24	581	894	217	102	244	224	36*36	38	34.8	56.9
		F16	165	4-M20(30)								46*46	60		
		#F14	140	4-M16(26)								#36*36	50		
A210	130	F16	165	4-M20(30)	36	605	982	231	115	284	254	46*46	60	45.5	77.2
A250	130	F16	165	4-M20(30)	36	755	1108	301	152	335	305	46*46	60	65.8	119.6
A300	130	F16/F25	165/254	4-M20(30) /8-M16(23)	36	889	1345	372	170	426	396	55*55	60	165.0	275.5

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※Unit : Nm

Model	Angle	Supply air (Air to)													
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar	
		Close	Open	Close	Open	Close	Open	Close	Open	Close	Open	Close	Open	Close	Open
AD50	0°	25.8	24.0	35.6	32.4	39.4	36.2	44.9	39.9	53.4	47.3	64.0	54.5	71.1	60.4
	45°	13.9	13.6	18.5	17.9	21.1	20.3	23.2	21.9	28.2	27.3	33.6	31.9	37.9	36.0
	90°	22.9	24.9	31.3	33.8	35.5	38.6	39.2	43.6	47.7	50.3	55.4	62.6	61.4	68.4
AD65	0°	60.2	54.6	81.7	70.3	93.6	78.1	105.0	83.8	123.5	105.8	142.9	119.1	164.1	135.8
	45°	31.6	30.1	42.2	40.0	47.4	44.4	52.8	51.1	63.5	59.9	74.2	70.6	85.1	79.8
	90°	52.9	52.0	69.2	70.7	77.4	78.1	84.9	87.0	108.5	102.3	125.2	120.0	142.9	138.5
AD80	0°	120.0	100.5	160.5	135.8	182.6	152.6	203.7	169.3	244.3	206.4	288.4	239.0	333.4	264.6
	45°	65.3	51.2	85.6	71.4	95.3	82.0	105.8	90.0	127.0	110.3	147.3	130.5	165.8	148.2
	90°	107.6	97.0	142.0	135.8	158.8	156.1	174.6	165.8	211.7	201.1	246.1	238.1	275.2	273.4
AD100	0°	201.1	185.2	268.1	241.7	305.2	280.5	345.7	311.3	321.0	381.0	495.7	433.9	558.3	483.3
	45°	116.4	109.4	154.4	148.2	176.4	167.6	196.7	185.2	235.5	224.9	271.7	269.9	305.2	314.9
	90°	187.9	173.8	251.4	234.6	281.4	266.4	310.5	295.5	373.1	362.5	440.1	428.7	493.9	485.1
AD125	0°	493.9	430.4	618.3	589.2	703.8	650.0	778.8	716.2	952.6	834.4	1,118.4	949.0	1,300.1	1,108.7
	45°	234.6	225.8	310.5	304.3	350.2	345.7	388.1	382.8	491.3	456.0	541.5	541.5	613.0	608.6
	90°	382.8	357.2	510.7	479.8	572.4	538.9	631.5	601.5	781.5	718.8	904.1	849.4	1,001.1	965.8
AD140	0°	800.0	649.2	1,030.2	833.5	1,179.2	932.3	1,266.6	1,016.9	1,584.1	1,178.4	1,796.6	1,338.0	1,987.1	1,494.1
	45°	339.6	311.3	448.1	414.5	506.3	467.5	553.9	520.4	669.4	624.5	774.4	727.7	872.3	821.1
	90°	516.9	531.0	680.0	715.3	786.7	796.4	862.6	912.0	1,025.8	1,064.6	1,223.3	1,261.3	1,338.9	1,412.1
AD160	0°	1,094.6	912.0	1,487.1	1,173.9	1,698.7	1,316.8	1,932.5	1,447.4	2,294.1	1,724.3	2,758.9	2,142.4	3,261.6	2,424.6
	45°	486.0	480.7	654.4	637.7	735.6	718.8	821.1	799.1	977.3	994.0	1,149.2	1,138.7	1,285.1	1,281.5
	90°	765.6	1,098.1	1,009.0	1,195.1	1,140.4	1,284.2	1,263.9	1,412.1	1,496.8	1,688.1	1,837.2	1,936.9	2,033.9	2,232.3
AD185	0°	1,566.4	1,268.3	2,082.4	1,620.2	2,313.5	1,794.9	2,404.3	1,964.2	2,942.4	2,310.8	3,532.4	2,672.5	4,029.9	2,988.2
	45°	753.2	733.8	1,009.9	976.4	1,136.0	1,089.3	1,260.4	1,218.0	1,507.3	1,472.9	1,755.2	1,736.7	2,028.6	1,984.5
	90°	1,204.8	1,145.7	1,581.4	1,536.4	1,771.1	1,749.0	2,057.7	1,854.8	2,347.9	2,257.0	2,774.8	2,654.8	3,141.7	3,159.3
AD210	0°	2,090.3	1,781.6	2,831.2	2,266.7	3,219.3	2,540.2	3,625.0	2,804.8	4,462.9	3,272.2	5,300.8	3,748.5	6,209.3	4,233.6
	45°	970.2	1,093.7	1,296.5	1,420.0	1,464.1	1,578.8	1,631.7	1,746.4	1,966.9	2,072.7	2,310.8	2,416.7	2,663.6	2,760.7
	90°	1,508.2	1,816.9	2,019.8	2,425.5	1,993.3	2,716.6	2,504.9	2,998.8	2,998.8	3,625.0	3,501.5	4,268.9	3,977.8	4,868.6
AD250	0°	3,783.8	2,866.5	5,124.4	3,686.8	5,821.2	4,101.3	6,650.3	4,533.5	8,237.9	5,344.9	9,613.8	6,121.1	10,001.9	6,809.0
	45°	1,764.0	1,852.2	2,390.2	2,399.0	2,663.6	2,698.9	2,963.5	3,025.3	3,572.1	3,598.6	4,233.6	4,224.8	4,798.1	4,877.5
	90°	2,919.4	3,342.8	3,827.9	4,639.3	4,295.3	5,230.3	4,771.6	5,856.5	5,715.4	6,782.6	6,588.5	7,179.5	7,470.5	7,320.6
AD300	0°	5,450.8	4,965.7	7,426.4	6,421.0	8,334.9	7,108.9	9,322.7	7,788.1	11,421.9	9,181.6	13,256.5	10,407.6	15,311.5	11,642.4
	45°	3,087.0	3,475.1	4,145.4	4,621.7	4,683.4	5,186.2	5,221.4	5,759.5	6,271.0	6,853.1	7,329.4	7,973.3	8,370.2	9,067.0
	90°	4,939.2	5,680.1	6,500.3	7,611.7	7,294.1	8,643.6	8,070.3	9,569.7	9,596.2	11,836.4	11,122.0	12,744.9	12,595.0	13,124.2

※0°-Valve Closed / 90°-Valve open

► AS sereis Torque table

※Unit : Nm

Model	Spring type	Angle	Supply Air (Air to Open)							Spring to Close
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
AS50	Weak	0°	15.9	24.4	27.2	31.0	40.8	52.2	56.5	10.1
		45°	7.9	12.5	14.8	17.1	21.8	27.0	31.5	6.7
		90°	10.1	19.3	22.9	27.0	36.6	44.9	54.0	13.0
	Middle*	0°	11.1	19.2	23.5	27.6	36.0	45.5	52.1	13.5
		45°	4.5	9.1	11.9	14.1	18.7	23.6	27.7	9.5
		90°	4.5	14.0	18.5	22.4	32.2	41.8	49.7	19.1
	Strong	0°	11.9	19.3	23.4	30.0	37.0	46.0	54.2	18.2
		45°	1.8	7.2	10.0	12.6	17.9	22.3	26.5	12.4
		90°	-	7.2	10.9	15.7	22.7	31.3	37.5	23.2
AS65	Weak	0°	34.6	52.8	60.2	71.0	88.1	106.1	124.8	23.9
		45°	15.8	28.0	33.6	38.5	49.8	59.6	69.5	15.4
		90°	20.7	39.3	48.8	57.9	76.0	91.0	110.8	27.9
	Middle*	0°	21.6	39.9	48.7	56.1	76.7	92.5	113.6	36.1
		45°	6.9	17.9	23.4	29.0	38.2	49.5	59.6	24.3
		90°	-	25.3	24.5	33.6	52.2	70.7	89.8	49.2
	Strong	0°	12.7	31.7	40.3	51.8	67.9	85.0	105.5	45.6
		45°	-	9.5	14.7	20.6	31.3	42.5	53.9	32.1
		90°	-	-	9.3	18.6	37.3	55.1	65.5	66.1
AS80	Weak	0°	84.7	122.9	142.4	161.1	198.3	234.6	270.9	42.8
		45°	40.0	61.4	72.6	82.9	103.3	123.8	145.2	25.8
		90°	41.0	75.4	95.9	111.7	147.1	186.2	229.0	48.4
	Middle*	0°	43.8	80.1	104.3	122.9	159.2	197.4	234.6	69.8
		45°	9.3	28.9	40.0	54.0	75.4	95.9	118.2	48.4
		90°	-	37.2	56.8	74.5	113.6	151.8	212.3	95.9
	Strong	0°	20.5	59.6	79.1	95.9	139.7	176.9	212.3	95.0
		45°	-	11.2	25.1	37.2	56.8	77.3	99.6	66.1
		90°	-	-	20.5	39.1	74.5	109.9	147.1	130.3
AS100	Weak	0°	115.4	180.6	229.0	255.1	310.0	373.3	425.5	80.1
		45°	46.6	93.1	111.7	128.5	172.2	217.9	265.3	60.5
		90°	64.2	130.3	162.9	195.5	260.7	325.9	389.2	121.0
	Middle*	0°	77.3	144.3	176.9	207.6	271.9	332.4	412.4	112.7
		45°	14.0	60.5	81.9	100.5	141.5	179.7	233.7	85.7
		90°	-	70.8	102.4	135.0	202.0	270.0	353.8	164.8
	Strong	0°	49.3	121.0	150.8	186.2	257.9	317.5	375.2	147.1
		45°	-	40.0	60.5	81.9	120.1	161.1	205.8	112.7
		90°	-	24.2	58.7	91.2	159.2	230.9	293.3	240.2
AS125	W	0°	251.4	381.7	461.8	521.4	643.3	767.1	883.5	166.6
		45°	126.6	205.8	243.9	285.8	362.2	442.2	517.6	101.5
		90°	184.3	324.9	388.2	459.0	599.6	745.7	886.3	185.3
	WM	0°	203.0	333.3	400.3	461.8	582.8	702.9	827.7	243.0
		45°	83.8	166.6	203.9	243.0	324.9	398.5	474.8	147.1
		90°	91.2	220.6	288.6	356.6	497.2	634.0	775.5	283.0
	WS	0°	171.3	302.6	365.0	424.5	554.9	675.0	796.9	283.0
		45°	59.6	143.4	182.5	220.6	298.9	377.1	455.3	172.2
		90°	43.8	180.6	251.4	316.5	455.3	593.0	732.7	315.6
	M	0°	152.7	287.7	351.0	412.4	544.6	669.4	795.1	302.6
		45°	41.9	128.5	170.4	205.8	280.2	357.5	432.9	190.9
		90°	-	133.1	200.2	262.5	399.4	538.1	679.6	372.4
	MS	0°	119.2	248.6	314.7	378.9	501.8	652.6	773.7	354.7
		45°	18.6	100.5	138.7	176.9	256.0	331.4	405.9	215.1
		90°	-	85.7	148.0	215.1	348.2	485.1	623.8	417.1
	S*	0°	72.6	203.9	270.0	334.2	470.2	599.6	721.5	396.6
		45°	-	71.7	108.9	149.0	226.2	305.4	381.7	240.2
		90°	-	41.9	107.1	173.2	304.4	441.3	580.0	461.8

※0°-Valve Closed / 90°-Valve open

*Standard

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Model	Spring type	Angle	Supply air (Air to)							Spring to Close
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
AS140	W	0°	499.4	701.1	797.1	888.4	1,094.9	1,272.5	1,394.5	144.1
		45°	244.9	360.2	413.0	470.6	581.0	696.3	806.7	91.2
		90°	374.6	561.8	662.7	758.7	960.4	1,166.9	1,378.2	182.5
	WM	0°	356.3	553.2	652.1	753.0	982.5	1,169.8	1,348.4	267.0
		45°	169.0	276.6	332.3	388.0	500.4	613.7	727.0	164.2
		90°	223.8	404.3	501.3	595.4	796.2	999.8	1,197.6	311.2
	WS	0°	331.3	538.8	654.0	739.5	957.5	1,143.8	1,318.6	330.4
		45°	132.5	251.6	312.1	370.7	486.9	604.1	716.5	204.6
		90°	133.5	338.1	430.3	530.1	727.0	927.7	1,127.5	386.1
	M	0°	249.7	465.8	568.6	663.6	871.1	1,078.5	1,156.3	397.6
		45°	91.2	212.2	266.0	314.1	426.4	556.1	665.6	236.3
		90°	77.8	284.3	376.5	477.3	690.5	875.9	1,075.6	450.4
	MS	0°	312.1	423.5	506.1	605.1	803.9	990.2	1,169.8	458.1
		45°	48.0	161.3	222.8	285.2	397.6	512.9	616.6	274.7
		90°	-	176.7	274.7	375.5	575.3	839.4	950.8	529.2
	S*	0°	172.9	379.4	475.4	571.4	768.3	960.4	1,162.1	566.6
		45°	14.4	139.3	196.9	259.3	374.6	489.8	600.3	321.7
		90°	-	100.8	196.9	297.7	489.8	691.5	888.4	600.3
AS160	W	0°	645.2	992.4	1,205.6	1,369.5	1,550.1	1,943.9	2,182.3	318.4
		45°	338.0	495.3	577.2	654.5	849.1	999.0	1,168.4	218.8
		90°	543.7	798.8	947.8	1,054.8	1,376.0	1,627.4	1,990.5	390.1
	WM	0°	616.3	956.1	1,174.9	1,267.1	1,561.3	1,925.3	2,081.7	413.4
		45°	280.2	440.4	540.9	637.7	772.7	959.9	1,152.6	243.9
		90°	365.9	703.8	845.3	981.3	1,288.5	1,606.9	1,911.3	468.3
	WS	0°	447.8	718.7	862.1	1,075.3	1,318.3	1,653.5	1,885.3	609.8
		45°	179.7	319.3	409.6	513.0	661.0	848.1	1,003.6	370.5
		90°	128.5	361.2	563.3	683.4	945.9	1,307.2	1,565.0	708.5
	M	0°	594.0	857.5	1,101.4	1,160.0	1,466.3	1,720.5	2,073.3	495.3
		45°	257.9	404.1	487.8	587.5	742.9	904.9	1,096.7	298.9
		90°	293.3	602.4	703.8	870.5	1,161.9	1,436.5	1,767.0	551.2
	MS	0°	365.0	718.7	863.0	1,094.9	1,282.9	1,552.0	1,835.9	705.7
		45°	135.0	284.9	364.0	459.9	607.9	791.4	961.7	419.0
		90°	-	314.7	465.5	594.0	891.0	1,159.1	1,555.7	805.3
	S*	0°	216.0	497.2	637.7	808.1	1,080.9	1,375.1	1,646.0	929.1
		45°	-	168.5	262.5	341.7	500.9	684.3	841.6	535.3
		90°	-	-	256.0	304.4	653.6	929.1	1,217.7	1,053.0
AS185	W	0°	951.5	1,317.4	1,511.0	1,713.0	2,105.9	2,395.5	2,794.9	386.4
		45°	484.1	745.7	872.3	1,002.7	1,289.4	1,549.2	1,818.2	260.7
		90°	656.4	1,064.1	1,273.6	1,458.9	1,820.1	2,220.4	2,676.6	492.5
	WM	0°	727.1	1,108.8	1,371.4	1,539.9	1,891.8	2,282.8	2,630.1	626.6
		45°	333.3	606.1	742.0	864.9	1,118.1	1,409.5	1,686.0	420.8
		90°	369.6	765.3	970.1	1,177.7	1,645.1	1,930.0	2,424.3	769.9
	WS	0°	506.5	895.6	1,113.5	1,337.8	1,718.6	2,081.7	2,518.4	911.4
		45°	171.3	444.1	584.7	713.1	978.5	1,231.7	1,501.7	567.0
		90°	18.6	485.1	703.8	899.3	1,318.3	1,679.5	2,100.3	1,074.4
	M	0°	468.3	886.3	1,130.2	1,313.6	1,689.8	2,098.5	2,370.3	902.1
		45°	177.8	442.2	566.0	693.6	951.5	1,215.9	1,490.5	592.1
		90°	-	468.3	671.3	877.0	1,287.6	1,689.8	2,079.9	1,157.2
	MS	0°	319.3	751.3	935.7	1,123.7	1,510.1	1,911.3	2,303.3	1,087.4
		45°	28.9	300.7	451.5	590.3	833.2	1,101.4	1,376.0	726.2
		90°	-	209.5	432.0	637.7	1,035.3	1,417.9	1,897.4	1,394.6
	S*	0°	138.7	606.1	817.4	1,010.1	1,446.8	1,819.2	2,194.4	1,336.9
		45°	-	156.4	289.5	417.1	674.0	990.6	1,215.9	869.6
		90°	-	-	169.4	382.6	795.7	1,242.0	1,652.5	1,654.4

※0°-Valve Closed / 90°-Valve open

*Standard

※Unit : Nm

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Model	Spring type	Angle	Air (to Open)							※Unit : Nm
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	Spring to Close
AS210	W	0°	1,443.1	1,955.1	2,290.3	2,495.1	3,025.8	3,556.4	4,124.3	335.2
		45°	837.9	1,191.7	1,359.3	1,536.2	1,889.9	2,253.0	2,597.5	214.1
		90°	1,182.4	1,713.0	2,001.7	2,318.2	2,895.4	3,472.6	4,105.7	400.3
	WM	0°	1,080.0	1,601.3	1,880.6	2,150.6	2,699.9	3,193.3	3,724.0	744.8
		45°	558.6	921.7	1,107.9	1,275.5	1,787.5	1,973.7	2,299.6	456.2
		90°	744.8	1,340.6	1,647.9	1,964.4	2,588.2	3,230.6	3,826.4	875.1
	WS	0°	986.9	1,564.1	1,834.1	2,066.8	2,644.0	3,212.0	3,742.6	977.6
		45°	437.6	800.7	977.6	1,154.4	1,489.6	1,852.7	2,206.5	540.0
		90°	465.5	1,005.5	1,377.9	1,666.5	2,271.6	2,942.0	3,519.2	1,042.7
	M	0°	623.8	1,173.1	1,405.8	1,666.5	2,187.9	2,718.5	3,193.3	1,182.4
		45°	288.6	670.3	865.8	1,033.4	1,405.8	1,787.5	2,197.2	698.3
		90°	167.6	791.4	1,098.6	1,387.2	2,048.2	2,662.7	3,314.4	1,331.3
	MS	0°	586.5	1,163.8	1,461.7	1,750.3	2,290.3	2,802.3	3,314.4	1,387.2
		45°	195.5	540.0	726.2	893.8	1,247.5	1,601.3	1,973.7	810.0
		90°	-	558.6	884.5	1,191.7	1,815.5	2,448.5	3,165.4	1,536.2
	S*	0°	297.9	837.9	1,117.2	1,387.2	1,973.7	2,495.1	2,979.2	1,601.3
		45°	-	400.3	586.5	763.4	1,154.4	1,526.8	1,899.2	958.9
		90°	-	270.0	567.9	847.2	1,452.4	2,076.1	2,662.7	1,778.2
AS250	W	0°	2,364.7	3,314.4	3,798.5	4,301.2	5,213.6	6,116.7	6,936.0	763.4
		45°	1,340.6	1,955.1	2,346.1	2,634.7	3,277.1	3,891.6	4,487.4	391.0
		90°	2,392.7	3,593.7	4,170.9	4,785.3	5,455.7	6,079.4	8,472.1	754.1
	WM	0°	1,787.5	2,755.8	3,258.5	3,733.3	4,673.6	5,576.7	6,451.8	1,461.7
		45°	1,024.1	1,629.3	1,936.5	2,253.0	2,876.8	3,509.9	4,133.6	763.4
		90°	1,601.3	2,746.5	3,351.6	3,910.2	5,101.9	6,312.2	7,587.7	1,387.2
	WS	0°	1,508.2	2,513.7	3,007.1	3,454.0	4,431.6	5,371.9	6,274.9	1,768.9
		45°	791.4	1,433.7	1,750.3	2,048.2	2,662.7	3,286.4	3,891.6	940.3
		90°	1,033.4	2,169.2	2,709.2	3,267.8	4,403.6	5,595.3	6,805.6	1,796.8
	M	0°	1,508.2	2,616.1	3,165.4	3,668.1	4,627.1	5,539.5	6,405.3	1,908.6
		45°	716.9	1,368.6	1,675.8	1,973.7	2,588.2	3,230.6	3,817.1	1,042.7
		90°	800.7	1,983.0	2,578.9	3,156.1	4,366.4	5,586.0	6,740.4	2,020.3
	MS	0°	1,145.1	2,132.0	2,625.4	3,100.2	4,068.5	5,008.8	5,828.1	2,364.7
		45°	353.8	986.9	1,303.4	1,592.0	2,215.8	2,848.9	3,463.3	1,396.5
		90°	232.8	1,284.8	1,862.0	2,457.8	3,565.7	4,627.1	5,781.5	2,448.5
	S*	0°	958.9	2,011.0	2,485.8	2,988.5	3,789.2	4,701.6	4,617.8	2,653.4
		45°	270.0	893.8	1,201.0	1,508.2	2,132.0	2,755.8	3,416.8	1,536.2
		90°	46.6	1,033.4	1,601.3	2,253.0	3,295.7	4,506.0	5,567.4	3,035.1
AS300	W	0°	4,394.3	6,126.0	6,908.0	7,755.2	9,216.9	10,576.2	11,963.4	1,368.6
		45°	2,718.5	3,910.2	4,515.4	5,111.2	6,274.9	7,429.4	8,583.8	698.3
		90°	4,319.8	6,330.8	7,354.9	8,397.6	9,915.2	10,762.4	11,311.7	1,322.0
	WM	0°	3,444.7	5,111.2	5,874.6	6,638.0	8,192.8	9,663.8	10,985.8	2,457.8
		45°	2,011.0	3,230.6	3,733.3	4,375.7	5,539.5	6,731.1	7,839.0	1,359.3
		90°	2,709.2	4,664.3	5,697.7	6,721.8	8,825.9	10,436.5	10,855.5	2,644.0
	WS	0°	2,550.9	4,143.0	4,971.5	5,818.8	7,503.9	8,993.5	9,570.7	3,696.1
		45°	1,377.9	2,541.6	3,146.8	3,733.3	4,887.8	6,051.5	7,196.6	1,880.6
		90°	1,489.6	3,547.1	4,580.5	6,014.3	7,801.8	9,570.7	10,408.6	3,333.0
	M	0°	2,448.5	4,236.1	5,083.3	5,902.5	7,448.0	8,928.3	10,092.0	3,956.8
		45°	1,070.7	2,308.9	2,867.5	3,454.0	4,589.8	5,809.4	6,898.7	2,150.6
		90°	1,145.1	3,090.9	4,105.7	5,092.6	7,029.1	8,984.2	10,110.7	3,956.8
	MS	0°	1,964.4	3,565.7	4,338.5	5,213.6	6,814.9	8,379.0	9,701.0	4,729.5
		45°	651.7	1,834.1	2,346.1	3,007.1	4,254.7	5,353.3	6,451.8	2,476.5
		90°	409.6	2,383.4	3,137.5	4,236.1	6,535.6	8,146.3	9,989.6	4,552.6
	S*	0°	1,247.5	3,100.2	4,096.4	4,943.6	6,619.4	8,313.8	9,645.2	5,818.8
		45°	-	1,266.2	1,843.4	2,355.4	3,537.8	4,757.4	5,939.8	3,165.4
		90°	-	958.9	1,899.2	2,839.6	4,925.0	7,038.4	9,086.6	5,744.3

※0°-Valve Closed / 90°-Valve open

*Standard