

SWAD SERIES

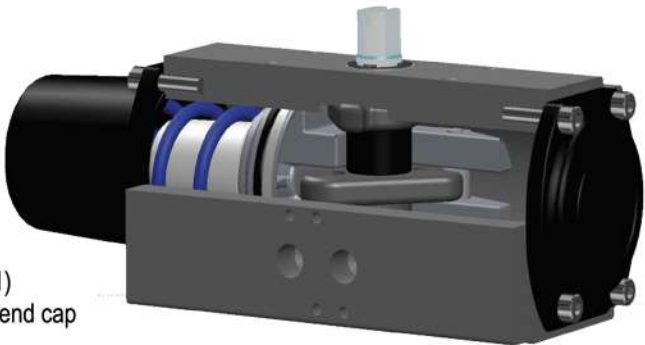
PNEUMATIC ACTUATOR

PNEUMATIC DOUBLE ACTING & SPRING RETURN ACTUATOR



S&W

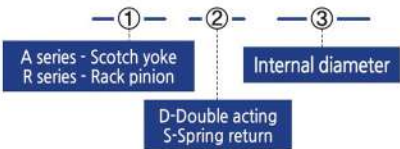
SWA, SWR Series(Scotch yoke,Rack Pinion)



- International standard (DIN3337, NAMUR, ISO5211)
- Hard anodized aluminum body and powder coated end cap
- The working medium is compressed air, the maximum size of the foreign matter or dust from the filter can be supplied for demanding clean air, it is recommended that management does not exceed 40μ. (ISO 8573 Part 1, Class 5)
- It is good to be near or supply air, especially using a dehumidified air 41° F (5° C) so that the moisture contained in the air, if not less cooling in the supply line must be installed in a separate dehumidifier.
- Operating air pressure : 3~8Bar · Recommended pressure : 4~6Bar · Design pressure : 10Bar

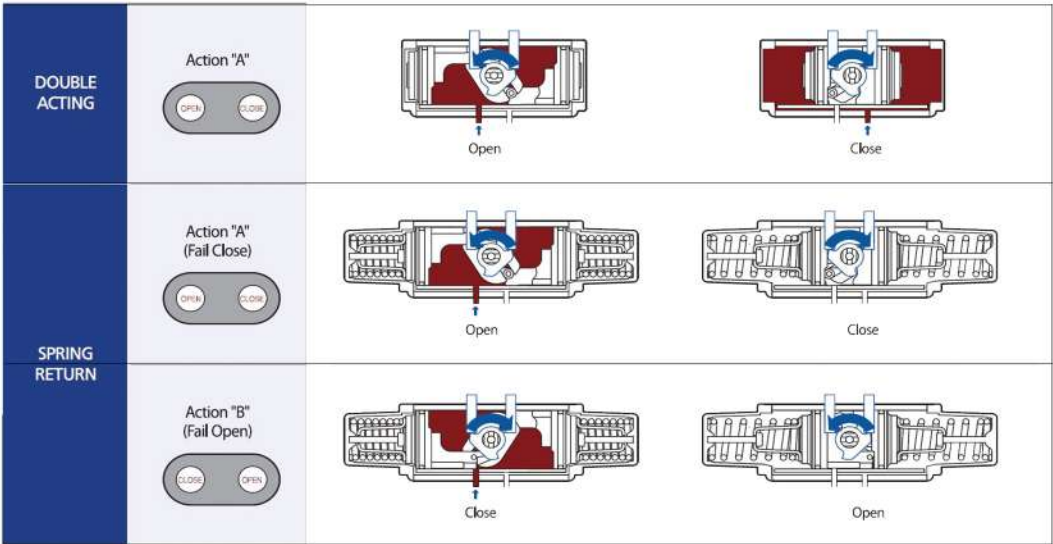
Model range

SWAD65



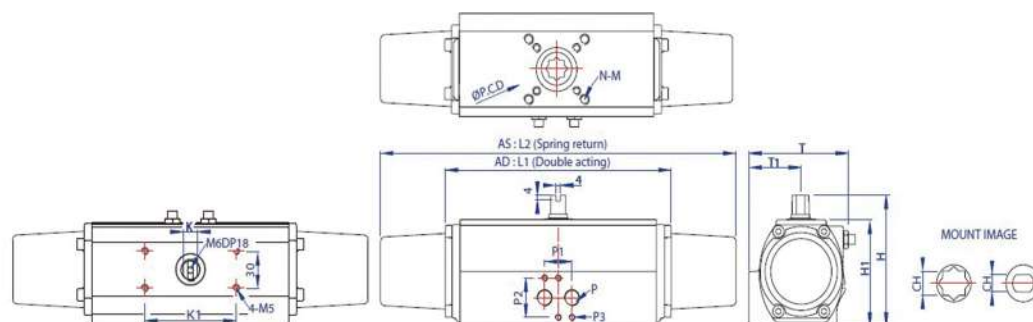
AD	50/65/80/100/125/140/160/185/210/250/300
AS	50/65/80/100/125/140/160/185/210/250/300
RD	32/40/50/65/80/90/100/115/125/140/160/185/210
RS	40/50/65/80/90/100/115/125/140/160/185/210

SWA - Operating mechanism



SWA Series(Scotch yoke)

DIMENSION



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)
SWA50	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* Ø 15	14		
SWA65	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* Ø 17	17		
												#9.7* Ø 15	14		
SWA80	80	F07	70	4-M8(15)	13	253	421	101	49.5	126	106	17*17	19	3.9	5.3
												#14.7* Ø 19	20		
SWA100	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* Ø 22	26		
SWA125	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
SWA140	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			
SWA160	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		
SWA185	80/130	F14	140	4-M16(26)	24	581	894	217	102	244	224	36*36	38	34.8	56.9
SWA210	130	F16	165	4-M20(30)	36	605	982	231	115	284	254	46*46	60	45.5	77.2
		#F14	140	4-M16(26)								#36*36	50		
SWA250	130	F16	165	4-M20(30)	36	755	1108	301	152	335	305	46*46	60	65.8	119.6
SWA300*	130	F16/F25	165/254	4-M20(30)/R-	36	889	1345	372	170	408	378	55*55	60	165.0	275.5

SWA Series(Scotch yoke)

SWAD - TORQUE TABLE

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
SWAD50	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
SWAD65	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
SWAD80	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
SWAD100	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
SWAD125	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
SWAD140	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
SWAD160	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
SWAD185	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
SWAD210	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
SWAD250	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
SWAD300	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

SWA Series(Scotch yoke)

SWAS - TORQUE TABLE

Model	Spring type	Angle	Supply Air (Air to Open)							Spring to Close
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
SWAS50	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
SWAS65	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
SWAS80	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
SWAS100	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	-	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
SWAS125	W	0 °	337.0	467.4	540.0	599.6	729.0	864.0	959.9	84.7
		45 °	170.4	254.2	296.1	338.0	423.6	498.1	573.5	57.7
		90 °	255.1	382.6	440.4	509.3	635.9	773.7	904.9	116.4
	WM	0 °	256.0	392.0	474.8	539.0	670.3	796.9	915.2	182.5
		45 °	118.2	195.5	238.3	282.1	365.0	448.7	527.9	119.2
		90 °	159.2	283.0	353.8	412.4	549.3	681.5	820.2	223.4
	WS	0 °	203.9	342.6	409.6	477.6	630.3	748.5	865.8	235.5
		45 °	78.2	160.1	201.1	244.9	323.1	409.6	487.8	150.9
		90 °	92.2	223.4	291.4	351.0	485.1	619.1	758.8	278.4
	M	0 °	181.5	334.2	403.1	471.1	603.3	735.5	861.2	267.2
		45 °	66.1	147.1	189.9	234.6	313.7	402.2	475.7	173.2
		90 °	50.3	179.7	243.9	312.8	445.9	580.0	704.8	329.6
	MS	0 °	128.5	276.5	351.9	421.7	561.4	684.3	804.4	316.5
		45 °	27.0	108.0	146.2	186.2	267.2	346.3	428.3	207.6
		90 °	-	119.2	180.6	250.4	381.7	509.3	630.3	393.8
	S*	0 °	90.3	234.6	303.5	372.4	513.9	650.8	762.5	370.5
		45 °	-	85.7	128.5	169.4	255.1	337.0	417.1	233.7
		90 °	-	60.5	128.5	189.0	320.3	452.5	581.9	444.1

SWA Series(Scotch yoke)

SWAS - TORQUE TABLE

Model	Spring type	Angle	Supply air (Air to Open)							Spring to Close
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
SWAS140	W	0°	463.6	661.0	756.0	850.0	1,043.7	1,209.4	1,379.7	146.2
		45°	233.7	337.0	392.9	445.9	555.8	661.0	766.2	92.2
		90°	361.2	553.9	660.1	759.7	951.5	1,144.2	1,340.6	176.9
	WM	0°	381.7	577.2	684.3	782.0	954.3	1,131.2	1,238.2	265.3
		45°	172.2	274.6	325.9	377.1	488.8	591.2	702.9	158.3
		90°	237.4	409.6	498.1	591.2	796.0	1,000.8	1,182.4	302.6
	WS	0°	280.2	473.9	589.3	684.3	869.6	1,052.0	1,205.6	329.6
		45°	110.8	223.4	275.6	330.5	434.8	553.9	648.0	206.7
		90°	119.2	322.1	416.2	514.8	719.7	926.3	1,120.0	393.8
	M	0°	260.7	442.2	544.6	623.8	800.7	982.2	1,168.4	400.3
		45°	107.1	214.1	265.3	316.5	423.6	526.0	637.7	228.1
		90°	79.1	274.6	372.4	470.2	670.3	879.8	1,098.6	446.9
	MS	0°	194.6	380.8	483.2	575.4	796.9	972.0	1,145.1	484.1
		45°	37.2	153.6	211.3	269.1	382.6	481.3	583.7	284.9
		90°	-	172.2	271.9	375.2	562.3	762.5	954.3	539.0
	S*	0°	125.7	311.9	405.0	497.2	693.6	861.2	1,042.7	558.6
		45°	-	116.4	162.9	218.8	325.9	432.9	544.6	325.9
		90°	-	79.1	172.2	265.3	456.2	651.7	842.6	623.8
SWAS160	W	0°	649.8	964.5	1,141.4	1,289.4	1,596.7	1,896.4	2,194.4	343.5
		45°	307.2	475.7	560.5	647.0	812.8	983.1	1,167.5	202.0
		90°	452.5	749.5	900.3	1,066.0	1,338.8	1,642.3	1,967.2	379.8
	WM	0°	601.4	915.2	1,055.8	1,202.9	1,576.2	1,864.8	2,090.1	422.7
		45°	284.0	450.6	534.4	621.0	784.8	952.4	1,120.0	244.9
		90°	391.0	683.4	848.1	1,002.7	1,336.0	1,589.2	1,830.3	463.6
	WS	0°	418.0	703.8	863.0	993.4	1,382.5	1,655.3	1,875.0	559.5
		45°	151.8	326.8	405.9	494.4	672.2	839.8	1,015.7	332.4
		90°	142.4	462.7	618.2	760.6	1,053.9	1,366.7	1,689.8	662.9
	M	0°	528.8	841.6	982.2	1,152.6	1,509.2	1,878.8	2,143.2	472.9
		45°	230.9	404.1	489.7	571.6	745.7	918.0	1,081.8	277.4
		90°	296.1	600.5	756.9	896.6	1,189.8	1,458.9	1,726.1	525.1
	MS	0°	355.6	656.4	824.9	978.5	1,323.9	1,631.1	1,862.9	654.5
		45°	109.9	283.0	366.8	459.0	629.4	805.3	969.2	388.2
		90°	133.1	365.9	490.6	632.1	955.2	1,258.7	1,525.0	767.1
	S*	0°	210.4	509.3	655.4	797.9	1,136.8	1,418.8	1,716.8	842.6
		45°	-	191.8	277.4	367.7	533.5	703.8	864.0	498.1
		90°	-	161.1	323.1	463.6	749.5	1,064.1	1,328.5	952.4
SWAS185	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

SWA Series(Scotch yoke)

SWAS - TORQUE TABLE

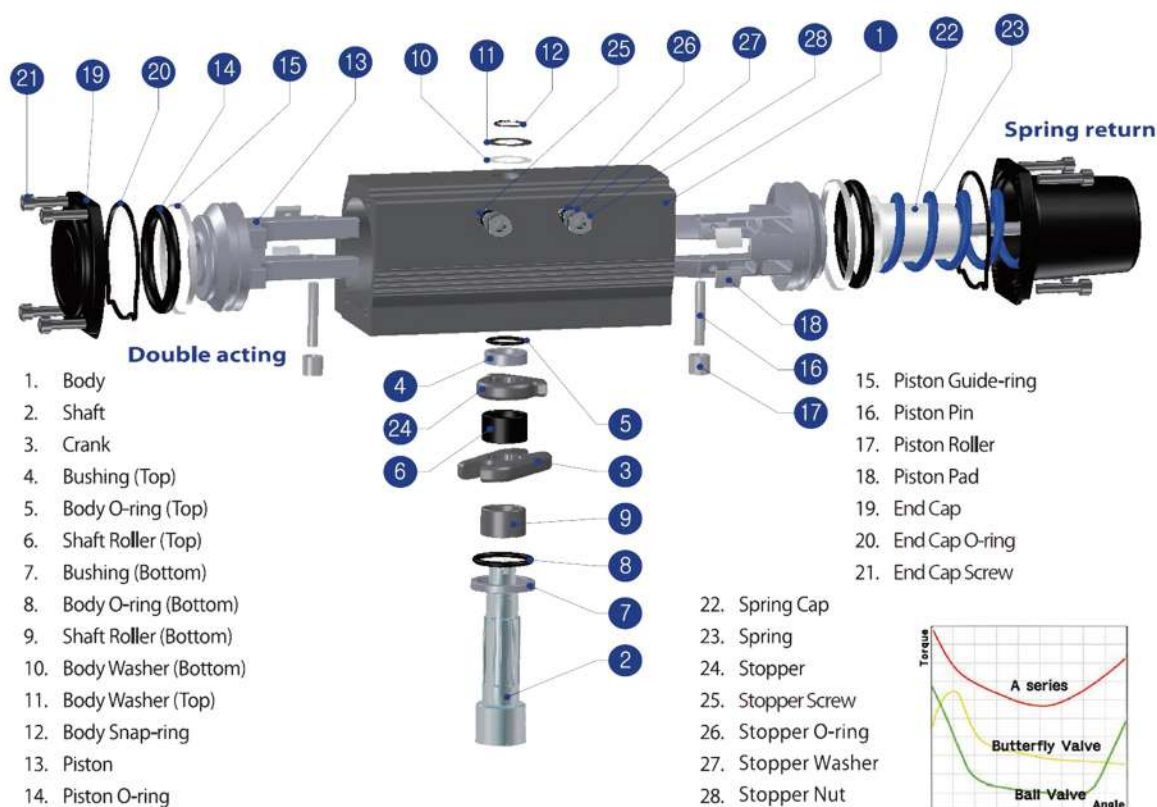
Model	Spring type	Angle	Air (to Open)							Spring to Close
			3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
SWAS210	W	0°	1,443.1	1,955.1	2,290.3	2,495.1	3,025.8	3,556.4	4,124.3	335.2
		45°	837.9	1,191.7	1,359.3	1,536.2	1,889.9	2,253.0	2,597.5	214.1
		90°	1,182.4	1,713.0	2,001.7	2,318.2	2,895.4	3,472.6	4,105.7	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
SWAS250	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	6,721.1	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	5,617.8	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
SWAS300	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

SWA Series(Scotch yoke)

Selection guide

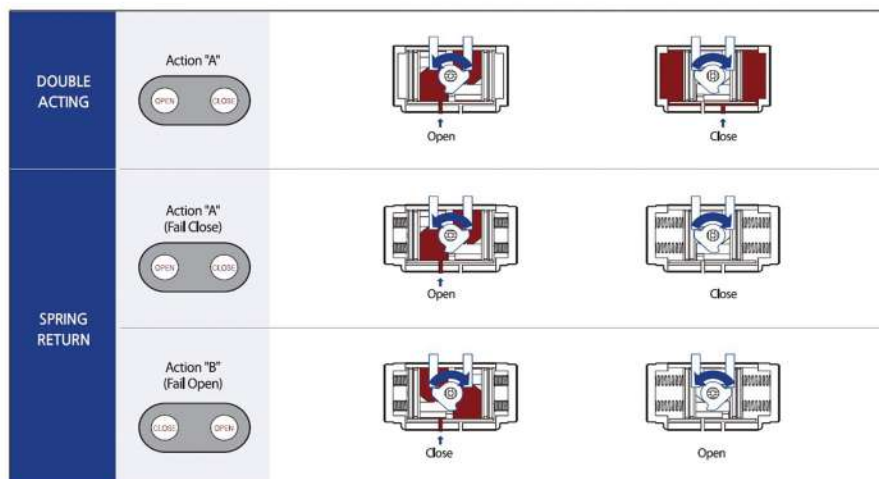
Valve Size		Double acting		Spring return	
		Ball valve	Butterfly valve	Ball valve	Butterfly valve
1/2"	15A	SWAD50		SWAS50	
3/4"	20A				
1"	25A				
1-1/4"	32A	SWAD65		SWAS65	
1-1/2"	40A				
2"	50A				
2-1/2"	65A	SWAD80	SWAD50	SWAS80	SWAS50
3"	80A				
4"	100A				
5"	125A	SWAD100	SWAD65	SWAS100	SWAS65
6"	150A	SWAD125		SWAS125	
8"	200A	SWAD140		SWAS140	
10"	250A	SWAD160	SWAD80	SWAS160	SWAS80
12"	300A	SWAD185		SWAS185	
14"	350A	SWAD210		SWAS210	
16"	400A	SWAD250	SWAD125	SWAS250	SWAS125
18"	450A	SWAD300		SWAS300	
20" ~ 22"	500A ~ 550A				
24" ~ 32"	600A ~ 800A		SWAD140		SWAS140
34" ~ 40"	850A ~ 1000A				
			SWAD160		SWAS160
			SWAD185		SWAS185
			SWAD210		SWAS210
			SWAD250		SWAS250
			SWAD300		SWAS300

Part list

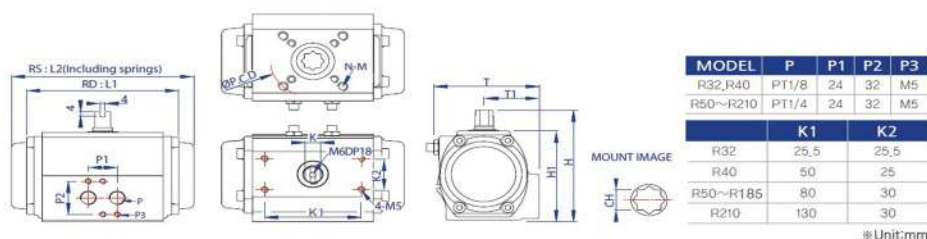


SWR Series(Rack pinon)

SWR - Operating mechanism



DIMENSION



MODEL	ISO	P.C.D (Ø)	N-G (depth)	K	RD L1	RS L2	T	T1	H	H1	CH	Stem depth	RD Wt(Kg)	RS Wt(Kg)
@SWRD32	F03	36	4-M5(7)	7	66	-	45	25	55	45	9*9	9	0.3	-
@SWR40	F03/F05	36/50	4-M5/M6 (8/12)	9	97	97	63	32	75	55	9*9	9	0.5	0.6
	#F04	#42	#4-M5											
SWR50	F03/F05/F07	36/50/70	4-M5/M6/M8 (10/12/12.5)	9	119	133	75	40	90	70	11*11	13	1.0	1.1
	#F04	#42	#4-M5											
SWR65	F05/F07	50/70	4-M6/M8 (11/11)	13	131	154	89	46	106.5	86.5	14*14	16	1.4	1.5
	#F07	#70	#4-M5											
SWR80	F05/F07	50/70	4-M6/M8 (11/15)	19	189	220	101	49.5	126	106	17*17	19	2.9	3.3
SWR90	F07	70	4-M8(17)	19	188	223	104	54.5	136	116	17*17	19	3.4	3.8
SWR100	F07/F10	70/102	4-M8/M10 (16/19)	19	229	256	132	61.5	148	128	22*22	26	4.7	5.4
											#17*17	19		
SWR115	F07/F10	70/102	4-M8/M10 (16/19)	19	264	302	141.5	67.5	163	143	22*22	26	6.7	5.4
SWR125	F07/F10	70/102	4-M10/M12 (18/25)	19	299	330	151	71.5	174	154	22*22	26	8.6	9.9
SWR140	F10/F12	102/125	4-M10/M12 (18/25)	24	332	389	"	77	192	172	27*27	30	12.4	14.5
											#22*22	26		
SWR160	F10/F12	102/125	4-M10/M12 (18/25)	24	364	416	188	103.5	216	196	27*27	30	16.9	19.5
SWR185	F10/F12	102/125	4-M10/M12 (18/25)	24	434	465	217	103	244	224	36*36	30	24.2	29.0
SWR210	F14	140	4-M16(23)	36	444	527	231	115	284	254	36*36	30	32.3	37.9

SWR Series(Rack pinion)

SWRD - TORQUE TABLE

MODEL	Supply air						
	3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar
SWRD32	2.0	3.0	3.4	3.8	4.7	5.6	6.6
SWRD40	4.8	6.6	7.5	8.3	10.1	11.9	13.6
SWRD50	8.8	12.1	13.9	15.2	18.2	21.6	24.4
SWRD65	16.5	21.8	24.8	27.3	33.2	38.5	44.1
SWRD80	35.4	49.3	55.9	63.3	76.3	91.2	107.1
SWRD90	44.7	63.3	71.7	81.0	98.7	117.3	139.7
SWRD100	70.8	95.9	109.9	122.0	148.0	176.0	203.0
SWRD115	113.6	156.4	176.0	195.5	236.5	277.4	314.7
SWRD125	156.4	210.4	237.4	265.3	317.5	375.2	424.5
SWRD140	246.7	327.7	365.9	407.8	485.1	566.0	630.3
SWRD160	339.8	450.6	509.3	566.0	676.8	788.6	901.2
SWRD185	449.7	596.8	675.9	748.5	907.7	1,060.4	1,203.8
SWRD210	642.4	844.4	949.6	1,052.0	1,263.4	1,487.7	1,736.3

SWR Series(Rack pinion)

SWRS - TORQUE TABLE

Model	Spring unit	Supply air (to Open)														Spring to Close	
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
SWRS40	WM	3.3	0.5	5.0	1.3	5.9	1.9	6.8	2.2	8.7	3.2	10.5	4.3	12.4	5.3	2.4	1.4
	WS	2.6	-	4.4	0.7	5.3	1.3	6.1	1.7	8.0	2.7	9.8	3.5	11.5	4.3	3.3	1.9
	M	2.3	-	4.2	0.7	5.1	1.1	5.9	1.6	7.7	2.3	9.5	3.2	11.3	4.0	3.7	2.3
	MS	1.9	-	3.5	0.3	4.5	0.8	5.3	1.3	7.2	2.1	9.0	2.9	10.8	3.7	4.6	2.9
	S*	1.5	-	3.1	-	4.0	-	4.9	0.7	6.6	1.4	8.5	2.0	10.2	2.7	5.1	3.2
SWRS50	4	7.4	5.6	10.7	8.9	12.2	10.6	13.9	12.2	17.1	15.6	20.5	18.9	23.4	22.0	2.4	1.6
	5	6.7	4.8	10.0	7.9	11.6	9.9	13.2	11.4	16.6	15.0	19.9	18.2	23.1	21.2	3.4	2.0
	6	6.2	4.0	9.6	7.3	11.5	8.9	12.8	10.9	15.9	13.9	19.2	17.3	22.7	20.3	4.2	2.6
	7	5.8	3.0	8.9	6.1	10.6	7.8	12.3	9.5	15.6	12.8	19.0	16.5	22.1	19.6	4.9	3.1
	8*	5.0	2.1	8.3	5.2	9.9	6.9	11.6	8.6	14.9	11.9	18.4	15.5	21.2	18.7	6.0	3.6
	9	4.5	1.3	7.7	4.3	9.4	5.9	11.0	7.6	14.3	10.9	17.7	14.4	20.7	17.6	6.8	4.2
	10	3.8	-	7.2	3.5	8.8	5.2	10.5	6.7	14.0	10.1	17.1	13.6	20.2	16.7	7.7	4.7
	11	3.2	-	6.5	2.6	8.3	4.0	9.9	5.9	13.3	9.2	16.6	12.7	19.6	15.6	8.5	5.1
	12	2.7	-	6.1	1.5	7.6	3.1	9.5	4.7	12.7	8.1	16.1	11.5	19.0	14.5	9.4	5.8
SWRS65	4	11.5	10.0	17.3	15.5	20.6	18.6	23.1	21.1	29.2	27.3	34.6	33.1	40.8	38.9	5.9	3.2
	5	10.8	7.5	17.1	13.3	19.6	16.3	22.6	19.6	28.7	25.7	34.3	32.4	39.3	37.1	7.6	4.4
	6	9.8	6.4	16.1	12.2	19.1	15.6	22.7	18.9	28.0	24.4	33.8	30.3	43.8	35.5	8.8	5.4
	7	8.8	4.2	14.2	10.1	17.0	13.1	20.1	16.2	26.3	22.3	32.2	28.2	39.5	34.1	10.7	6.5
	8*	7.7	2.1	13.4	8.6	17.0	11.5	19.2	14.6	25.5	20.9	31.1	26.8	38.4	32.1	12.3	7.7
	9	6.2	-	11.9	5.8	14.9	8.5	17.8	12.8	23.7	17.9	29.5	24.1	35.3	30.1	14.6	8.3
	10	4.7	-	10.4	4.1	14.0	7.0	16.9	10.0	22.7	16.4	28.4	22.3	33.6	28.4	16.4	10.2
	11	3.5	-	9.3	2.1	12.4	5.2	15.2	8.4	21.4	14.5	27.1	20.7	33.4	26.2	18.1	11.5
	12	2.6	-	8.6	-	11.4	3.4	14.7	6.6	20.7	12.6	26.6	18.8	32.4	24.7	19.0	12.3
SWRS80	4	31.7	24.9	46.0	39.0	53.4	46.8	59.8	54.1	74.9	68.2	89.7	83.0	109.1	97.0	14.8	8.8
	5	29.0	19.8	43.0	34.4	50.5	41.5	57.6	48.5	71.8	63.8	86.8	78.3	105.4	92.0	18.7	11.0
	6	26.1	15.7	40.4	30.6	48.7	38.3	54.9	45.3	69.6	59.9	84.0	74.7	101.8	88.3	22.8	13.9
	7	23.0	10.9	38.2	25.1	45.7	32.7	52.1	39.2	66.5	54.2	83.9	69.7	99.4	82.7	27.7	15.9
	8*	19.9	5.9	35.3	20.8	42.3	28.9	49.5	35.4	64.0	50.1	77.6	65.5	93.5	78.3	32.0	18.4
	9	17.2	2.1	31.8	16.1	39.2	23.5	46.3	30.7	60.9	46.5	76.2	60.6	89.6	73.8	36.2	21.3
	10	14.6	-	29.1	12.2	36.6	18.7	44.2	26.7	58.5	41.1	73.2	55.8	86.3	68.1	40.7	24.7
	11	11.4	-	26.2	6.4	33.4	14.3	40.8	21.1	55.3	35.8	70.1	50.7	83.4	64.1	45.2	26.8
	12	9.3	-	23.1	-	30.4	9.6	37.9	16.4	52.8	31.3	67.0	46.4	80.6	61.2	49.5	29.2

SWR Series(Rack pinion)

SWRS - TORQUE TABLE

Model	Spring unit	Supply Air (to Open)														Spring to Close	
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
SWRS90	4	39.1	27.9	57.7	47.5	66.1	56.8	76.3	66.1	95.0	84.7	113.6	103.3	132.2	121.0	17.7	9.3
	5	34.4	19.6	52.1	38.2	61.4	47.5	70.8	58.7	91.2	76.3	108.0	96.8	126.6	116.4	24.2	13.0
	6	31.7	17.7	49.3	33.5	59.6	43.8	68.0	52.1	87.5	69.8	108.0	88.4	123.8	108.9	29.8	17.7
	7	28.9	7.4	45.6	26.1	55.9	34.4	65.2	44.7	83.8	63.3	102.4	81.9	120.1	102.4	33.5	20.5
	8*	24.2	-	42.8	19.6	52.1	28.9	61.4	38.2	80.1	55.9	95.9	75.4	115.4	94.0	40.0	22.3
	9	22.3	-	41.0	18.6	51.2	27.0	60.5	35.4	78.2	54.0	96.8	72.6	111.7	89.4	46.6	26.1
	10	20.5	-	38.2	13.0	47.5	21.4	56.8	31.7	75.4	50.3	92.2	68.9	108.0	81.0	53.1	27.9
	11	16.8	-	36.3	-	43.8	14.9	53.1	22.3	72.6	42.8	90.3	62.4	107.1	81.9	55.9	31.7
	12	14.0	-	29.8	-	39.1	8.4	50.3	14.9	66.1	33.5	84.7	54.9	105.2	72.6	61.4	35.4
SWRS 100	4	55.9	35.4	81.0	62.4	94.0	74.5	106.1	88.4	132.2	114.5	158.3	141.5	184.3	168.5	31.7	17.7
	5	50.3	25.1	75.4	52.1	88.4	65.2	100.5	77.3	126.6	104.3	152.7	131.3	177.8	157.3	40.0	22.3
	6	48.4	22.3	73.5	46.6	85.7	59.6	98.7	71.7	124.8	98.7	149.9	125.7	175.0	151.8	47.5	27.0
	7	41.9	-	67.0	34.4	79.1	47.5	93.1	59.6	117.3	87.5	144.3	113.6	170.4	136.9	55.9	29.8
	8*	36.3	-	61.4	24.2	74.5	37.2	87.5	50.3	113.6	78.2	139.7	104.3	164.8	130.3	67.0	37.2
	9	29.8	-	55.9	9.3	68.0	27.9	81.0	41.0	107.1	67.0	133.1	93.1	159.2	120.1	75.4	44.7
	10	24.2	-	48.4	-	62.4	22.3	76.3	34.4	100.5	58.7	126.6	84.7	151.8	110.8	84.7	50.3
	11	18.6	-	44.7	-	56.8	-	69.8	21.4	95.0	48.4	121.0	73.5	146.2	100.5	93.1	53.1
	12	13.0	-	39.1	-	51.2	-	64.2	13.0	90.3	38.2	115.4	64.2	141.5	87.5	103.3	58.7
SWRS 115	4	99.6	86.6	143.4	126.6	163.9	146.2	183.4	167.6	226.2	210.4	268.1	251.4	312.8	298.9	32.6	18.6
	5	95.0	71.7	138.7	116.4	157.3	138.7	178.8	156.4	219.7	198.3	260.7	240.2	308.2	288.6	45.6	26.1
	6	87.5	59.6	130.3	102.4	150.8	115.4	170.4	144.3	211.3	186.2	254.2	230.0	297.9	274.6	56.8	32.6
	7	80.1	49.3	122.0	92.2	142.4	112.7	162.9	134.1	205.8	176.0	247.6	217.9	290.5	263.5	67.0	41.9
	8*	74.5	40.0	116.4	80.1	136.9	101.5	157.3	121.0	198.3	162.9	241.1	206.7	284.0	243.0	77.3	45.6
	9	66.1	25.1	108.0	67.0	129.4	88.4	149.0	108.0	191.8	150.8	232.8	193.6	274.6	233.7	86.6	54.9
	10	58.7	15.8	99.6	57.7	122.0	79.1	141.5	98.7	183.4	140.6	225.3	183.4	267.2	224.4	101.5	61.4
	11	52.1	-	93.1	46.6	113.6	66.1	135.9	85.7	176.9	127.5	218.8	169.4	260.7	249.5	111.7	68.0
	12	46.6	-	87.5	27.9	107.1	54.0	128.5	74.5	170.4	116.4	211.3	158.3	254.2	238.3	121.0	74.5
SWRS 125	4	126.6	98.7	180.6	150.8	209.5	182.5	236.5	206.7	289.5	262.5	344.5	318.4	393.8	375.2	55.9	28.9
	5	116.4	78.2	168.5	133.1	196.4	161.1	224.4	189.0	275.6	242.1	328.6	298.9	378.0	359.4	74.5	38.2
	6	104.3	58.7	156.4	114.5	184.3	142.4	212.3	169.4	261.6	224.4	306.3	280.2	364.0	344.5	93.1	46.6
	7	96.8	38.2	149.0	94.0	179.7	122.9	202.0	149.0	257.0	203.9	310.0	261.6	371.5	329.6	108.0	55.9
	8*	84.7	31.7	138.7	76.3	165.7	103.3	193.6	130.3	246.7	185.3	299.8	239.3	361.2	317.5	125.7	68.0
	9	72.6	9.3	127.5	54.9	153.6	82.9	180.6	109.9	234.6	165.7	288.6	219.7	349.1	299.8	145.2	78.2
	10	60.5	-	115.4	37.2	140.6	65.2	168.5	90.3	221.6	148.0	275.6	204.8	327.7	260.7	163.9	91.2
	11	50.3	-	104.3	18.6	133.1	45.6	157.3	72.6	212.3	129.4	264.4	183.4	320.3	236.5	181.5	102.4
	12	41.0	-	95.0	-	122.0	27.9	147.1	55.9	202.0	109.9	254.2	162.9	309.1	219.7	196.4	109.9

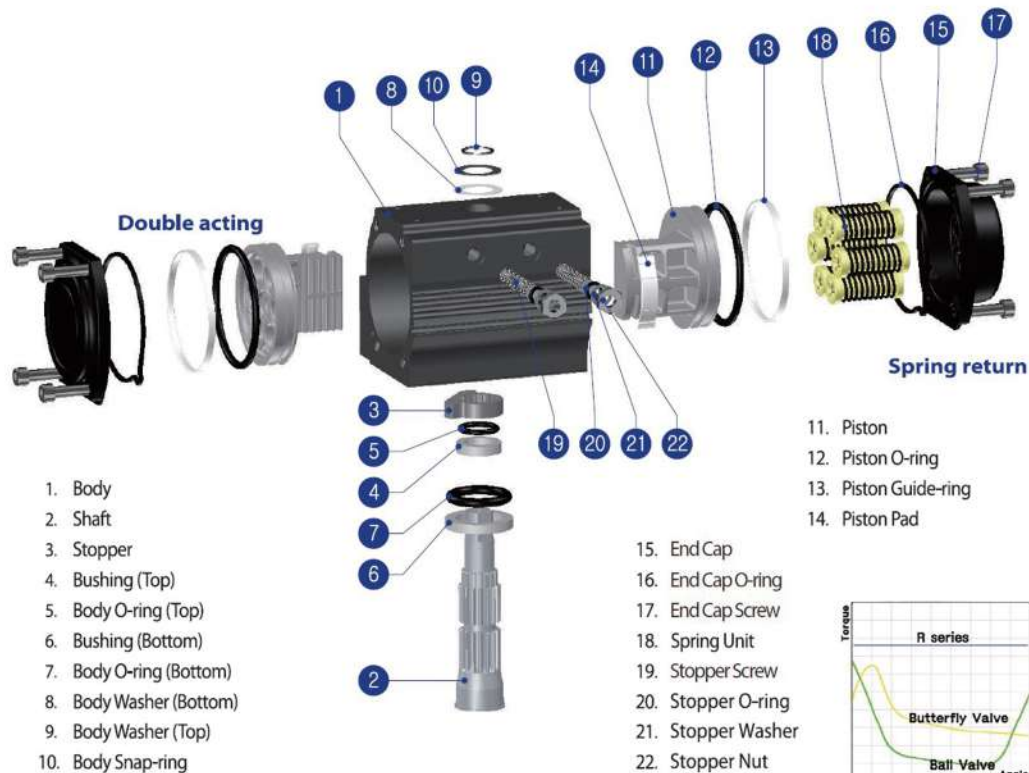
SWR Series(Rack pinion)

SWRS - TORQUE TABLE

Model	Spring unit	Supply Air(to Open)														Spring to Close	
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
SWRS 140	4	179.7	154.5	257.0	237.4	297.9	283.0	335.2	317.5	412.4	402.2	491.6	485.1	606.1	552.1	78.2	49.3
	5	175.0	132.2	252.3	211.3	290.5	252.3	329.6	291.4	405.9	372.4	486.0	454.3	599.6	524.2	95.9	55.9
	6	160.1	107.1	237.4	187.1	280.2	228.1	316.5	268.1	393.8	346.3	471.1	429.2	587.5	499.0	116.4	68.0
	7	146.2	84.7	223.4	165.7	262.5	206.7	300.7	246.7	381.7	325.9	459.0	407.8	575.4	477.6	139.7	82.9
	8*	131.3	65.2	211.3	146.2	249.5	186.2	288.6	225.3	366.8	305.4	443.2	385.4	560.5	461.8	160.1	95.0
	9	116.4	45.6	198.3	122.9	235.5	162.9	274.6	204.8	353.8	284.0	430.1	365.0	547.4	441.3	182.5	108.9
	10	95.9	18.6	178.8	96.8	219.7	138.7	261.6	180.6	338.0	261.6	416.2	342.6	533.5	419.0	205.8	126.6
	11	81.0	-	165.7	75.4	204.8	118.2	246.7	153.6	323.1	236.5	404.1	317.5	521.4	393.8	223.4	135.9
	12	75.4	-	153.6	54.0	191.8	94.0	230.9	131.3	312.8	212.3	393.8	293.3	509.3	373.3	245.8	145.2
SWRS 160	4	261.6	221.6	372.4	336.1	429.2	390.1	482.3	445.0	594.0	559.5	710.4	670.3	820.2	780.2	114.5	71.7
	5	236.5	179.7	349.1	294.2	405.0	351.0	463.6	405.0	569.8	517.6	686.1	628.4	796.0	736.4	149.0	96.8
	6	214.1	150.8	326.8	264.4	383.6	317.5	438.5	375.2	550.2	485.1	661.0	596.8	770.9	703.8	179.7	115.4
	7	194.6	111.7	307.2	226.2	364.0	283.0	420.8	337.0	530.7	450.6	650.8	558.6	751.3	666.6	209.5	135.9
	8*	173.2	83.8	284.9	196.4	340.7	254.2	397.5	310.0	507.4	421.7	627.5	532.5	728.0	637.7	241.1	156.4
	9	152.7	51.2	263.5	159.2	317.5	219.7	374.3	274.6	484.1	393.8	604.2	499.0	704.8	605.2	270.9	177.8
	10	127.5	14.9	238.3	131.3	296.1	187.1	351.0	242.1	460.8	355.6	580.9	470.2	681.5	574.4	302.6	198.3
	11	117.3	-	220.6	98.7	280.2	156.4	332.4	212.3	447.8	326.8	567.9	442.2	668.5	546.5	331.4	216.9
	12	89.4	-	203.9	71.7	258.8	123.8	314.7	180.6	425.5	296.1	545.6	410.6	646.1	514.8	359.4	237.4
SWRS 185	4	336.1	279.3	490.6	438.5	571.6	518.6	648.9	589.3	806.2	745.7	964.5	904.0	1,115.3	1,081.8	166.6	108.9
	5	320.3	240.2	471.1	391.0	554.9	469.2	628.4	547.4	789.5	703.8	941.2	864.9	1,091.1	1,030.6	214.1	143.4
	6	286.7	187.1	438.5	346.3	521.4	425.5	590.3	500.9	756.9	655.4	913.3	820.2	1,079.0	966.4	259.7	168.5
	7	253.2	136.9	409.6	290.5	486.0	374.3	559.5	449.7	734.6	612.6	883.5	767.1	1,031.5	933.8	309.1	203.9
	8*	216.9	90.3	380.8	245.8	458.1	323.1	534.4	403.1	702.0	560.5	855.6	718.7	990.6	887.2	356.6	234.6
	9	195.5	42.8	353.8	198.3	433.8	278.4	509.3	355.6	678.7	513.0	832.3	675.0	966.4	842.6	405.9	270.0
	10	161.1	-	320.3	147.1	405.9	226.2	476.7	306.3	633.1	467.4	790.4	624.7	924.5	788.6	457.1	294.2
	11	128.5	-	288.6	99.6	365.0	177.8	441.3	259.7	597.7	415.2	784.8	578.2	891.0	741.1	492.5	324.9
	12	105.2	-	258.8	48.4	340.7	137.8	416.2	216.0	572.6	376.1	738.3	527.9	865.8	691.7	543.7	357.5
SWRS 210	4	518.6	438.5	744.8	670.3	868.6	784.8	956.1	897.5	1,219.6	1,170.3	1,443.1	1,364.8	1,660.0	1,576.2	233.7	152.7
	5	481.3	369.6	703.8	598.6	835.1	711.3	946.8	823.9	1,174.9	1,053.9	1,397.4	1,288.5	1,622.7	1,499.8	297.9	193.6
	6	438.5	308.2	663.8	532.5	776.5	644.3	901.2	756.9	1,139.5	988.7	1,360.2	1,220.5	1,576.2	1,442.1	356.6	233.7
	7	405.9	256.0	632.1	479.5	745.7	589.3	861.2	705.7	1,097.6	932.9	1,326.7	1,170.3	1,540.8	1,387.2	397.5	262.5
	8*	366.8	189.9	591.2	419.9	704.8	530.7	819.3	648.0	1,050.2	875.1	1,294.1	1,104.2	1,509.2	1,320.2	468.3	312.8
	9	319.3	118.2	542.8	345.4	655.4	462.7	768.1	568.8	1,010.1	801.6	1,240.1	1,026.9	1,453.3	1,254.1	533.5	355.6
	10	272.8	50.3	503.7	275.6	608.9	392.0	721.5	509.3	963.6	728.0	1,195.4	953.3	1,397.4	1,184.2	597.7	400.3
	11	236.5	-	456.2	214.1	574.4	331.4	686.1	448.7	911.4	676.8	1,162.8	905.9	1,364.8	1,123.7	649.8	442.2
	12	193.6	-	417.1	147.1	530.7	266.3	644.3	384.5	875.1	608.9	1,118.1	842.6	1,323.0	1,058.5	724.3	480.4

SWR Series(Rack pinion)

Part list



Selection guide

Valve Size			Double acting		Spring return	
			Ball valve	Butterfly valve	Ball valve	Butterfly valve
1/2"	15A	SWRD32 (1piece)	SWRD50		SWRS40	
3/4"	20A	SWRD40 (1piece)			SWRS50	
1"	25A		SWRD65		SWRS65	
1-1/4"	32A				SWRS80	
1-1/2"	40A		SWRD80	SWRD50	SWRS90	SWRS50
2"	50A			SWRD65	SWRS100	SWRS65
2-1/2"	65A		SWRD90		SWRS115	SWRS80
3"	80A		SWRD100 / SWRD115	SWRD80	SWRS125	SWRS90
4"	100A		SWRD115 / SWRD125		SWRS140	SWRS100
5"	125A		SWRD140	SWRD90	SWRS160 / SWRS185	SWRS115
6"	150A		SWRD160	SWRD100	SWRS185 / SWRS210	SWRS125
8"	200A		SWRD185	SWRD125		SWRS140
10"	250A		SWRD210	SWRD140		SWRS160
12"	300A			SWRD160		SWRS185
14"	350A			SWRD185		SWRS210

VARIOUS OPTION

Indicator

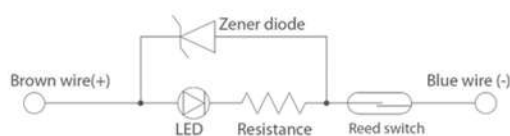
A	B	C	D
			
It is fixed with screws.	- Standard indicator - It is possible to assemble the switch box in an indicator-mounted state.	- To SWAR50~SWAR160 can be used with 1 size. - It is easy to recognize since size is big.	- There is no discoloration with plastic 4 piece indicator system. * For SWR40/SWAR50~SWAR125

Epoxy coated actuator



- Epoxy coated after hard anodized aluminum body.
- It is used for Chemical pipe line.

Side sensor



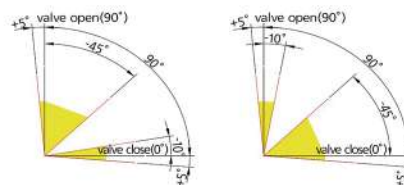
[Sensor Circuit Diagram]

Sensor Specification		
Sensor	D-93K (KCC)	
Application	Relay, PLC	
Voltage	DC24V	AC110V
Current range	5~40mA	5~20mA
Contact protection circuit	None	
Internal voltage drop	$\leq 2.7V$	
Indicator lamp	Red LED	
Wire length	1m(standard), 3m, 5m	

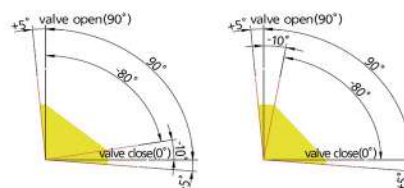
VARIOUS OPTION

Stopper

[Center stopper]



[End cap stopper]

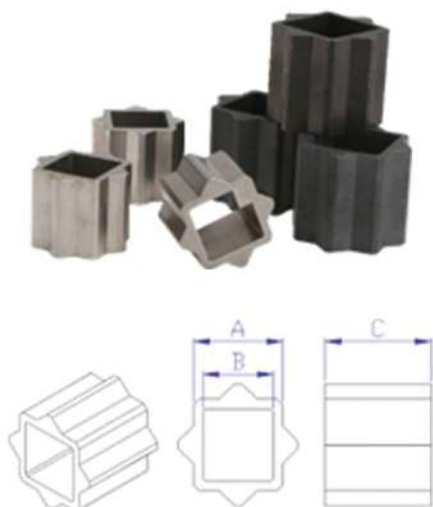


Port pad

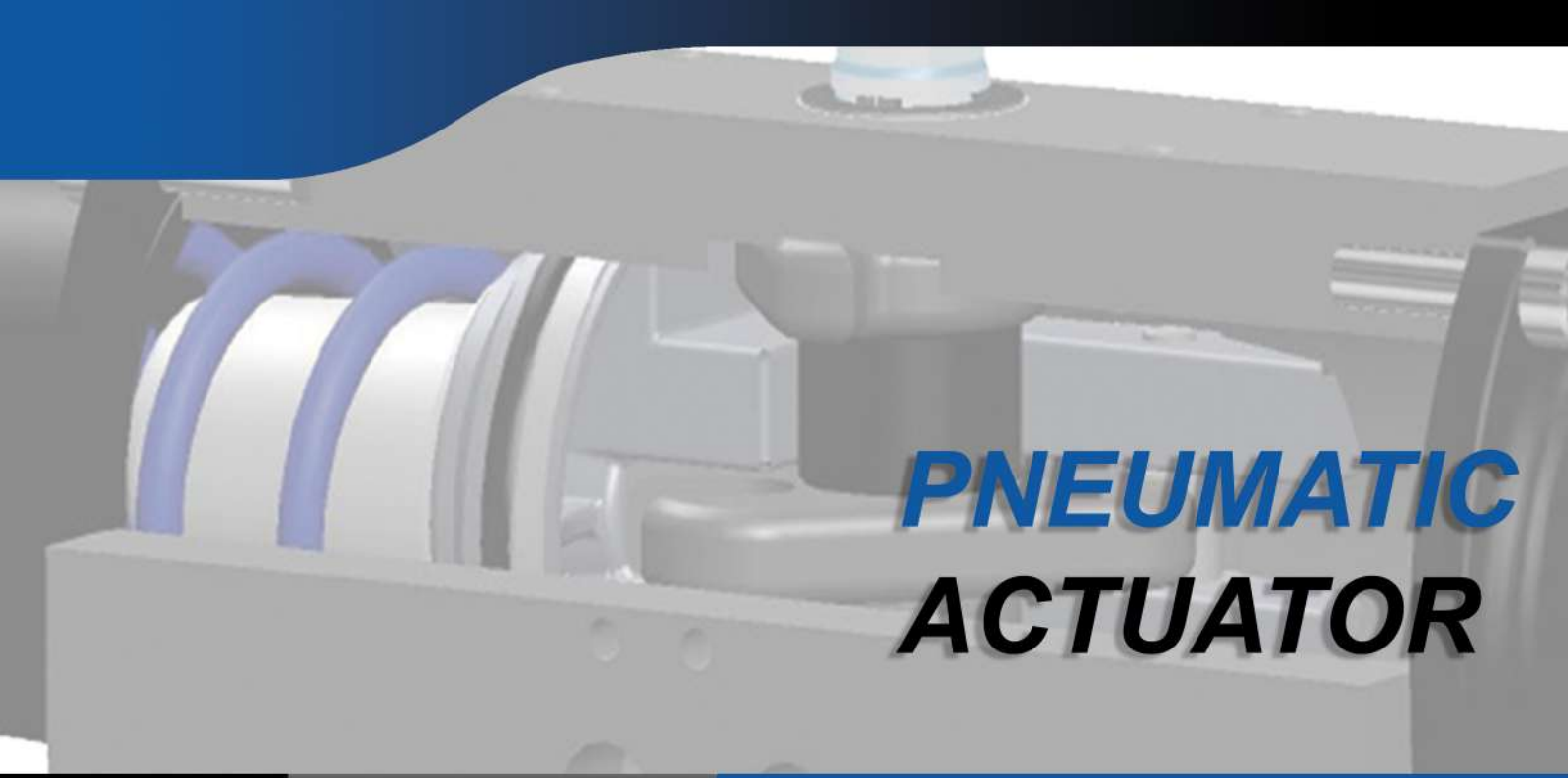


- Change Port size easily.
- Assemble other size NAUMUR solenoid valve with long screws.
- Add vent hole for quick response time in case of spring return.

Adopter



Double square			Single square		
A	B	C	A	B	C
11	9	12	11	9	10
14	9	15	14	9	15
14	11	15	14	11	16
17	14	18	17	11	17
17	11	18	17	14	17
22	14	24	22	17	22
22	17	24	27	22	27
27	17	27			
27	22	27			
36	27	38			



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