

JS / JR Series



Butterfly Valve 및 Actuator 에 대한

오랜 경험 및 전문성,
그리고 앞선 기술력 !



인사말

(주)정도기계 모든 임직원들은 품질이 최우선이라는 신념아래 제품을 개발하고 생산하고 있습니다. 그 노력의 결과로 '한국표준업체'의 KS표시인증, 품질경영체제인증서(ISO 9001), '한국기계전기전자시험연구원'의 품질보증마크인 Q마크 인정업체 지정 등 다수의 인증서를 획득하였습니다. 또한 지속적인 연구개발을 통해 고 품질 저가격의 제품을 만들기 위해 노력하고 있으며, A/S 즉각 대응 시스템을 통해 고객의 공기가 지연되지 않도록 최선을 다하고 있습니다. (주)정도기계 임직원들은 앞으로도 Global 산업용 Butterfly Valve 및 Actuator 선두주자라는 목표 아래 기술개발, 품질개선, 생산관리, 영업, A/S 등 모든 분야에서 최선을 다할 것을 약속드립니다. 감사합니다.

(주)정도기계 임직원 일동

회사 개요

- 대표이사 : 남중호 · 주소 : 경기도 김포시 양촌읍 황금2로 121 · 설립일 : 1990년 7월
- 홈페이지 : www.jdvalve.co.kr · TEL : 031-986-4309, FAX : 031-986-4308
- E-mail : jeongdo@jdvalve.co.kr

History 1990

- 1990.07 정도기계 상사 설립 (서울 구로동 소재)
- 1992.07 스팀용 Butterfly Valve 생산개시
- 1995.11 산업용 Butterfly Valve 생산개시

2010

- 2010.07 기업부설연구소 인정 <한국산업기술진흥협회>
- 2011.01 ALDC12 Butterfly Valve 생산개시
- 2012.10 위생안전기준인증(KC인증) <한국상하수도 협회>
- 2013.01 신축 이전 (김포 양촌산업단지 소재, 약 1600평)
- 2013.11 제39회 국가품질상 대통령 표창 수상
- 2015.01 Actuator 생산개시
- 2016.01 소재부품신뢰성 인증서 획득 <한국신뢰성학회>

1990

2000

2010

Company History

2000

- 2000.01 ISO 9001 인증 획득
- 2000.05 ㈜정도기계 법인설립
- 2002.02 KS B 2813 인증 획득 (50mm~300mm) <한국표준협회>
- 2004.05 ISO 9001:2000 인증
- 2004.06 벤처기업 확인 <중소기업청>
- 2004.10 INNO-BIZ 확인 <중소기업청>
- 2005.07 유망중소기업 선정 <인천광역시>
- 2005.09 Groove Butterfly Valve 생산 개시
- 2006.04 품질보증업체(Q마크) 지정 <한국기기유화시험연구원>
- 2007.01 벤처기업 확인 <기술보증기금>
- 2007.11 CLEAN 사업장 인증 <노동부, 한국산업안전공단>
- 2008.04 부품, 소재 신뢰성 인증 <지식경제부 기술표준원>
- 2009.06 품질우수 추천제품 지정 <인천광역시>

Pneumatic Actuator JS Series

Features

■ Aluminum Body

알루미늄 합금으로 이루어진 바디는 내·외부에 Anodizing 코팅되어 내 부식성을 향상시키고 피스톤과의 마찰을 감소시켜 수명이 긴 장점이 있습니다.

■ Indicator

모든 모델에 표준 open & Close indicator를 적용했습니다.

■ Stoppers

Stoppers는 밸브 Open & Close 위치에서 $\pm 5^\circ$ 까지 조절 가능합니다.

■ Spring

Fail safe 및 Emergency 상황에서 사용되는 고장력 스프링 세트는 고강도 합금강으로 구성됩니다.

■ Shaft

Alloy Steel로 구성된 Pinion Shaft는 무전해 니켈도금으로 코팅되어 마찰을 줄이고 내마모성과 내부식성을 향상시켰습니다.

■ Piston

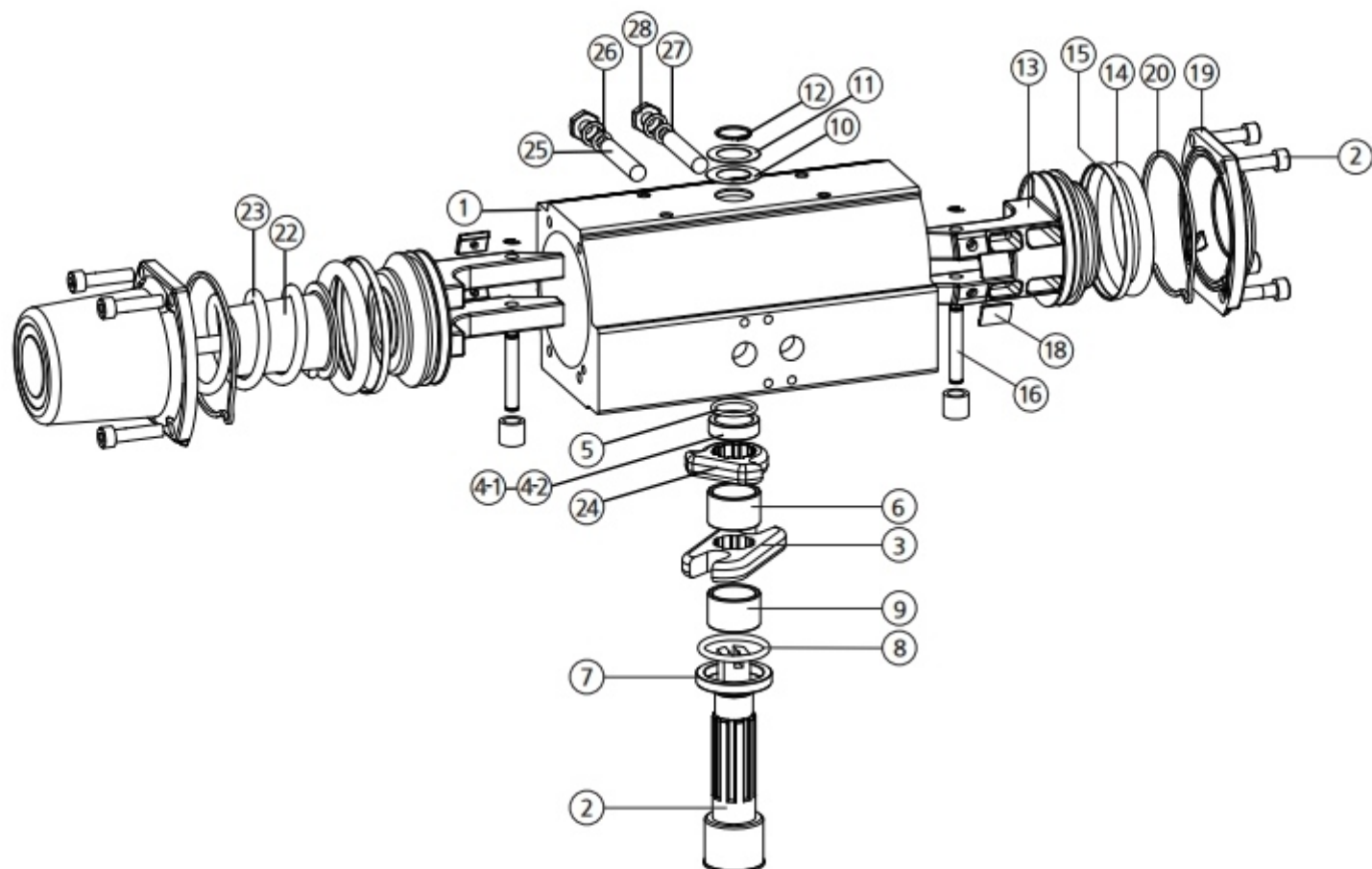
알루미늄 합금으로 구성된 Piston은 고품질의 피스톤 씰 및 가이드가 장착되어있어 공기 압력에 대한 높은 토크를 제공합니다.

■ Piston Seals

Pinion Seal의 표준 재질인 NBR은 상온에서 문제없이 Sealing역할을 합니다. 고온에서는 Viton재질을 사용할 수 있으며 저온에서는 Silicon재질을 사용할 수 있습니다.



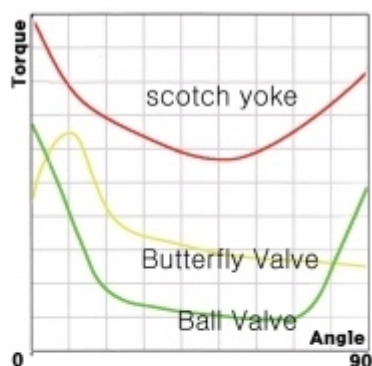
Component & Material



No.	Part Name	Q'ty'	Materials	No.	Part Name	Q'ty'	Materials
①	Body	1	Aluminum Alloy	⑮	Piston Guide-ring	2	Engineering Plastic
②	Shaft	1	Steel Alloy (Nickel Plated)	⑯	Piston Pin	2	Steel Alloy
③	Crank	1	Steel Alloy	⑰	Piston Roller	2	Steel Alloy
④-①	Bushing (Top)	1	Steel Alloy	⑱	Piston Pad	4	Engineering Plastic
④-②	Bushing (Top)	1	Copper Alloy	⑲	Cover	2	Aluminum Alloy
⑤	Body O-ring (Top)	1	NBR	⑳	Cover O-ring (Inside)	2	NBR
⑥	Shaft Roller (Top)	1	Engineering Plastic	㉑	Cover Bolt	8	Stainless Steel
⑦	Bushing (Bottom)	1	Copper Alloy	㉒	Spring Cap	2	Engineering Plastic
⑧	Body O-ring (Bottom)	1	NBR	㉓	Spring	2	Steel Alloy
⑨	Shaft Roller (Bottom)	1	Engineering Plastic	㉔	Stopper	1	Steel Alloy
⑩	Body Washer(Bottom)	1	Engineering Plastic	㉕	Adjust Bolt	2	Stainless Steel
⑪	Body Washer(Top)	2	Steel Alloy	㉖	Adjust O-ring	2	NBR
⑫	Body Snap-ring	1	Steel Alloy	㉗	Adjust Washer	2	Stainless Steel
⑬	Piston	2	Aluminum Alloy	㉘	Adjust Nut	2	Stainless Steel
⑭	Piston O-ring	2	NBR				

Technical Data

Torque Diagram



Air Consumption

The air consumption of actuator is calculated by below.

Double Acting

$$V = (A+B) * \left(\frac{P+1.013}{1.013} \right) * N$$

Single Acting

$$V = A * \left(\frac{P+1.013}{1.013} \right) * N$$

V = Air Consumption (Liter)

A = Volume "A" (Liter)

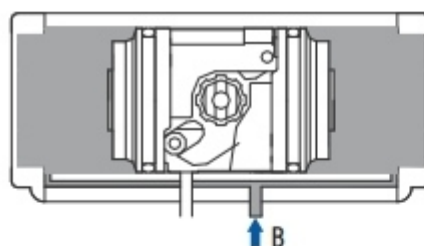
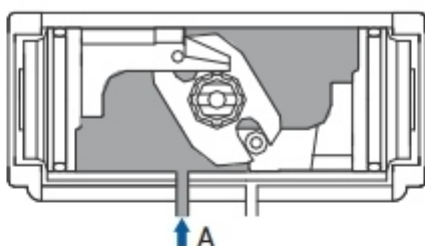
B = Volume "B" (Liter)

P = Supply Air pressure (Bar)

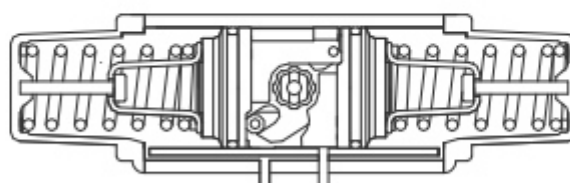
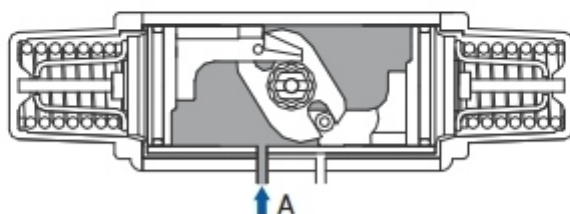
N = Number of Operating

Operating Mechanism

Double Acting

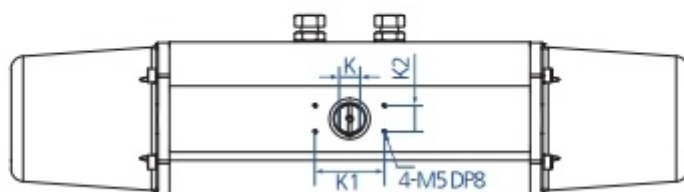
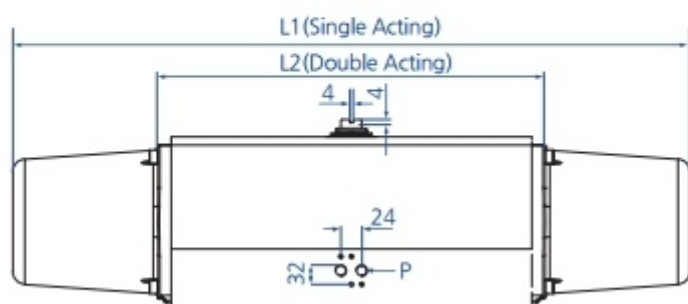
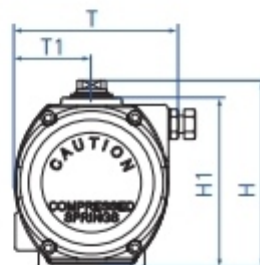
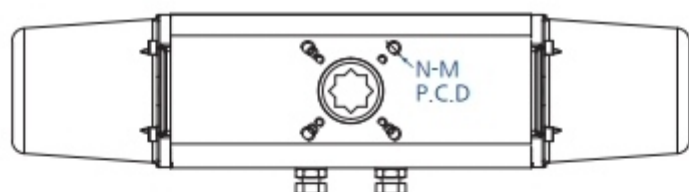


Single Acting



Double Acting			Single Acting	
MODEL	A	B	MODEL	A
JS050-D	0.2	0.2	JS050-S	0.2
JS065-D	0.3	0.3	JS065-S	0.3
JS080-D	0.6	0.5	JS080-S	0.6
JS100-D	1.2	1.1	JS100-S	1.2
JS125-D	2.5	2.2	JS125-S	2.5
JS140-D	3.9	3.5	JS140-S	3.9
JS160-D	4.8	4.3	JS160-S	4.8
JS185-D	5.8	7.5	JS185-S	5.8
JS210-D	6.2	9.9	JS210-S	6.2
JS250-D	8.0	12.8	JS250-S	8.0

Dimension Table



P	
A50~A210	PT1/4
	PT1/4
A250	PT3/8
	PT1/2

MODEL	K1	ISO	P.C.D(Ø)	N-M	K	L1	L2	T	T1	H	H1	CH(DP)
JS050	80	F03/F05/F07	36/50/70	4-M5/M6/M8	9	162	257	75	40	90	70	11*11*13
												#14*14*14
												#9.7*Ø15*14
JS065	80	F05/F07	50/70	4-M6/M8	13	202	314	89	46	107	87	14*14*17
												#11*11*13
												#11.7*Ø17*17
JS080	80	F07	70	4-M8	13	253	421	101	49.5	126	106	#9.7*Ø15*14
												17*17*19
												#14.7*Ø19*20
JS100	80	F07/F10	70/102	4-M8-M10	19	311	500	129	61.5	148	128	22*22*26
JS125	80	F07/F10	70/102	4-M8-M10	19	390	606	151	71.5	174	154	#17.7*Ø22*26
JS140	80	F10/F12	102/125	4-M10-M12	24	431	682	164	77	192	172	22*22*26
JS160	80	F14	140	4-M16	24	431	682	164	77	192	172	27*27*30
		#F10/F12	#102/125	#4-M10/M12								#22*22*30
												36*36*38
JS185	80/130	F14	140	4-M16	24	581	894	217	102	244	224	#27*27*27
JS200	130	F16	165	4-M20	36	605	982	231	115	284	254	36*36*38
		#F14										46*46*60
												#36*36*50
JS250	130	F16	165	4-M20	36	755	1108	301	152	335	305	46*46*60
JS300	130	F16/F25	165/254	4-M20/8-M16	36	889	1345	360	170	408	378	46*46*60

Torque Table

Double Acting

unit : Nm

Model	Angle	Supply Air													
		3 Bar		4 Bar		4.5 Bar		5 Bar		6 Bar		7 Bar		8 Bar	
		Close	Open	Close	Open	Close	Open	Close	Open	Close	Open	Close	Open	Close	Open
JS050-D	0°	31	25	43	32	48	36	54	40	67	48	79	54	92	61
	45°	15	15	20	20	23	23	26	25	30	29	36	34	41	40
	90°	24	29	31	40	35	46	39	48	47	60	53	71	61	83
JS065-D	0°	78	54	108	69	12	78	139	85	169	100	200	115	230	130
	45°	35	33	46	44	51	49	57	55	68	66	81	76	92	87
	90°	52	66	69	88	77	101	86	111	103	134	120	157	137	180
JS080-D	0°	152	100	209	133	238	152	266	166	323	200	380	228	437	261
	45°	67	57	90	76	100	86	109	95	133	114	157	138	176	162
	90°	105	119	138	166	152	190	166	219	200	266	233	318	266	366
JS100-D	0°	233	181	323	247	361	276	399	304	475	366	561	418	646	470
	45°	114	109	152	147	171	166	190	185	233	223	276	266	318	304
	90°	190	190	257	266	290	304	318	342	385	418	447	494	508	561
JS125-D	0°	551	390	751	508	874	575	998	632	1,197	746	1,397	855	1,596	960
	45°	247	242	333	323	371	361	413	399	499	475	584	556	665	632
	90°	394	451	527	613	589	698	646	822	774	983	893	1,145	1,002	1,306
JS140-D	0°	741	589	1,026	779	1,178	874	1,311	969	1,596	1,159	1,881	1,340	2,166	1,492
	45°	337	318	451	428	508	480	570	532	684	641	798	751	912	865
	90°	527	580	694	789	789	893	879	1,007	1,040	1,264	1,207	1,539	1,368	1,805
JS160-D	0°	1,121	903	1,539	1,188	1,739	1,330	1,948	1,473	2,385	1,748	2,850	2,033	3,325	2,299
	45°	523	504	703	675	789	760	879	846	1,059	1,012	1,235	1,183	1,416	1,349
	90°	846	979	1,126	1,363	1,268	1,582	1,401	1,805	1,677	2,123	1,948	2,503	2,209	2,883
JS185-D	0°	1,834	1,188	2,470	1,520	2,784	1,720	3,097	1,900	3,686	2,252	4,294	2,584	4,902	2,888
	45°	803	817	1,074	1,093	1,207	1,226	1,340	1,349	1,606	1,615	1,881	1,891	2,157	2,147
	90°	1,311	1,406	1,729	1,919	1,929	2,176	2,138	2,442	2,527	3,021	2,917	3,582	3,297	4,256
JS210-D	0°	2,138	1,976	2,945	2,613	3,344	2,888	3,724	3,164	4,560	3,677	5,368	4,218	6,318	4,750
	45°	1,083	1,102	1,444	1,492	1,615	1,663	1,805	1,853	2,166	2,223	2,527	2,594	2,898	2,945
	90°	1,748	1,824	2,318	2,432	2,613	2,755	2,879	3,069	3,458	3,705	4,028	4,323	4,617	4,940
JS250-D	0°	4,180	3,278	5,700	4,275	6,460	4,750	7,220	5,273	8,835	6,223	10,260	7,125	11,780	7,971
	45°	1,891	1,891	2,499	2,499	2,755	2,812	3,088	3,097	3,705	3,743	4,342	4,389	4,969	4,978
	90°	3,202	3,449	4,218	4,617	4,665	5,178	5,159	5,776	6,080	6,945	7,040	8,189	7,971	9,443
JS300-D	0°	7,287	5,719	10,089	7,553	11,495	8,493	12,825	9,215	15,998	10,346	18,896	11,524	21,793	13,015
	45°	3,363	3,192	4,456	4,285	5,054	4,921	5,624	5,434	6,793	6,555	8,009	7,752	9,196	8,902
	90°	5,320	5,985	7,125	8,170	7,980	9,282	8,854	10,422	10,526	12,797	12,217	15,276	13,832	17,807

Torque Table

Single Acting

unit : Nm

Model	Spring type	Angle	Supply Air							Spring
			3 Bar	4 Bar	4.5 Bar	5 Bar	6 Bar	7 Bar	8 Bar	
JS050-S	Middle	0°	8.9	17.3	21.2	25.7	34.2	42.8	50.4	16.2
		45°	2.2	6.8	9.2	11.8	16.6	21.5	26.2	10.1
		90°	-	10.8	14.7	18.8	27.5	37.9	47.4	19.0
JS065-S	Middle	0°	24.2	41.3	49.4	58.0	73.2	87.4	101.7	43.7
		45°	6.8	17.6	23.3	28.5	40.4	51.3	62.7	24.9
		90°	3.2	20.0	30.6	41.2	64.6	87.4	110.2	47.2
JS080-S	Middle	0°	42.8	76.0	95.0	114.0	147.3	180.5	209.0	76.0
		45°	9.5	33.3	42.8	57.0	76.0	99.8	118.8	42.8
		90°	4.8	42.8	61.8	85.5	128.3	171.0	218.5	85.5
JS100-S	Middle	0°	71.3	133.0	166.3	199.5	266.0	323.0	389.5	114.0
		45°	14.3	57.0	76.0	95.0	137.8	175.8	213.8	76.0
		90°	-	61.8	99.8	133.0	209.0	285.0	361.0	152.0
JS125-S	WM	0°	256.5	384.8	441.8	503.5	631.8	750.5	869.3	190.0
		45°	128.3	213.8	251.8	294.5	375.3	456.0	541.5	109.3
		90°	190.0	361.0	451.3	536.8	722.0	893.0	1,064.0	213.8
	WS	0°	190.0	323.0	384.8	446.5	574.8	693.5	807.5	261.3
		45°	66.5	152.0	190.0	232.8	313.5	394.3	475.0	152.0
		90°	76.0	218.5	289.8	361.0	494.0	641.3	826.5	256.5
	S	0°	80.8	213.8	280.3	346.8	470.3	589.0	712.5	408.5
		45°	-	85.5	128.3	166.3	247.0	327.8	408.5	237.5
		90°	-	61.8	133.0	213.8	384.8	560.5	712.5	446.5
JS140-S	S	0°	109.3	304.0	399.0	503.5	693.5	883.5	1,073.5	574.8
		45°	-	109.3	166.3	213.8	318.3	427.5	532.0	332.5
		90°	-	61.8	156.8	251.8	465.5	674.5	883.5	617.5
JS160-S	S	0°	156.8	470.3	622.3	769.5	1,059.3	1,339.5	1,615.0	888.3
		45°	-	166.3	247.0	332.5	508.3	679.3	850.3	498.8
		90°	-	66.5	218.5	380.0	731.5	1,121.0	1,520.0	940.5
JS185-S	S	0°	142.5	532.0	741.0	931.0	1,292.0	1,634.0	1,976.0	1,548.5
		45°	-	180.5	304.0	437.0	703.0	969.0	1,235.0	874.0
		90°	-	-	218.5	456.0	931.0	1,415.5	1,928.5	1,681.5
JS210-S	S	0°	390	1,093	1,416	1,739	2,375	2,945	3,515	1,682
		45°	-	352	542	722	1,093	1,463	1,834	1,036
		90°	-	228	523	855	1,473	2,100	2,708	1,948
JS250-S	MS	0°	1,093	2,157	2,670	3,164	4,228	5,187	6,061	2,660
		45°	399	1,045	1,359	1,691	2,328	2,993	3,639	1,482
		90°	19	1,235	1,758	2,347	3,468	4,608	5,795	2,879
	S	0°	732	1,900	2,442	2,945	3,943	4,864	5,776	3,278
		45°	124	779	1,093	1,416	2,071	2,727	3,363	1,739
		90°	-	665	1,197	1,748	2,888	4,028	5,168	3,316
JS300-S	S	0°	808	2,651	3,639	4,589	6,403	7,942	9,139	6,099
		45°	-	827	1,425	1,967	3,021	4,085	5,111	3,506
		90°	-	190	1,188	2,204	4,199	6,365	8,332	6,565

Component & Material

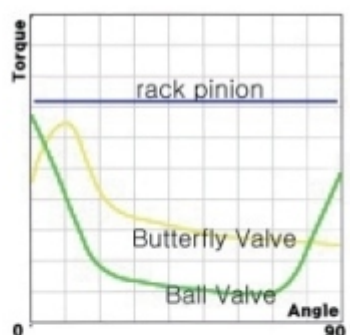


Pneumatic Actuator JR Series

Technical Data



Torque Diagram



Air Consumption

The air consumption of actuator is calculated by below.

Double Acting

$$V = (A+B) * \left(\frac{P+1.013}{1.013} \right) * N$$

V = Air Consumption (Liter)

A = Volume "A" (Liter)

B = Volume "B" (Liter)

P = Supply Air pressure (Bar)

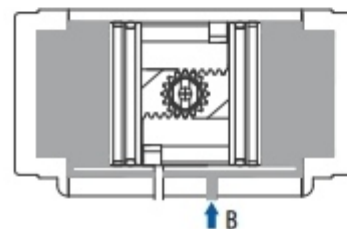
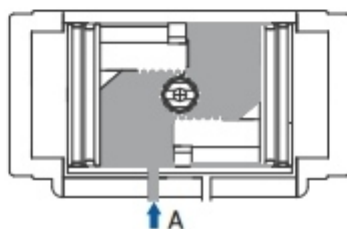
N = Number of Operating

Single Acting

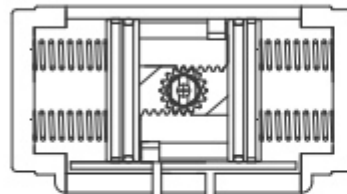
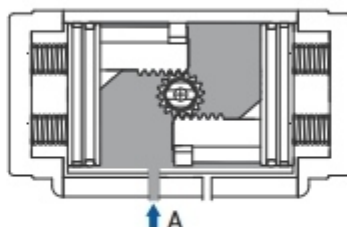
$$V = A * \left(\frac{P+1.013}{1.013} \right) * N$$

Operating Mechanism

Double Acting



Single Acting



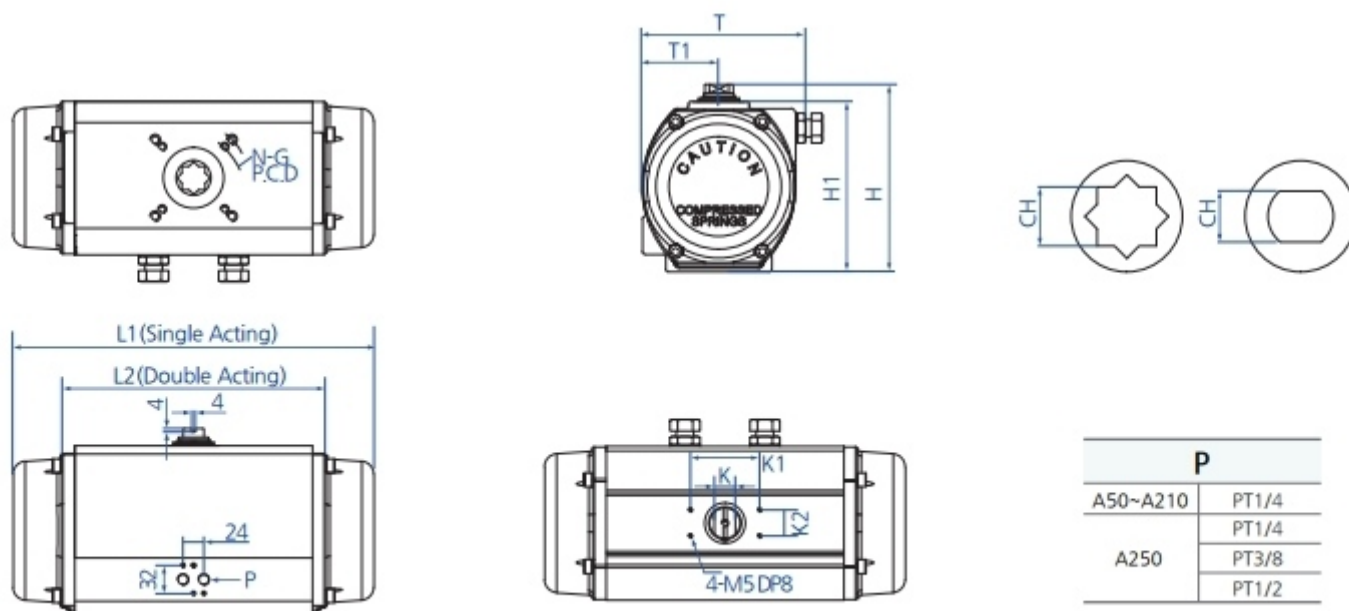
Double Acting

MODEL	A	B
JR032-D	0.1	0.1
JR040-D	0.1	0.1
JR050-D	0.2	0.1
JR065-D	0.3	0.2
JR080-D	0.4	0.4
JR090-D	0.7	0.6
JR100-D	0.9	0.9
JR115-D	1.5	1.4
JR125-D	2	1.8
JR140-D	3.2	2.8
JR160-D	3.8	3.5
JR210-D	12.5	11.3

Single Acting

MODEL	A
JR040-S	0.1
JR050-S	0.2
JR065-S	0.3
JR080-S	0.4
JR090-S	0.7
JR100-S	0.9
JR115-S	1.5
JR125-S	2
JR140-S	3.2
JR160-S	3.8
JR210-S	12.5

Dimension Table



MODEL	K1	K2	ISO	P.C.D(Ø)	N-G	K	L1	L2	T	T1	H	H1	CH
JR032	25.5	25.5	F03	36	4-M5	7	66		45	25	55	45	9*9*9
JR040	50	25	F03/F05	36/50	4-M5/M6	9	97	97	63	32	75	55	9*9*9
			#F04	#42	#4-M5								
JR050	80	30	F03/F05/F07	36/50/70	4-M5/M6/M8	9	118.5	133	75	40	90	70	11*11*13
			#F04	#42	#4-M5								
JR065	80	30	F05/F07	50/70	4-M6/M8	13	131	154	88.5	46	106.5	86.5	14*14*16
			#F04/F07	#42	#4-M5								
JR080	80	30	F05/F07	50/70	4-M6/M8	19	189	220	101	49.5	126	106	17*17*19
JR090	80	30	F07	70	4-M8	19	188	223	104	54.5	136	116	17*17*19
JR100	80	30	F07/F10	70/102	4-M8/M10	19	229	256	132	61.5	148	128	22*22*26
													#17*17*19
JR115	80	30	F07/F10	70/102	4-M8/M10	19	265	302	141.5	67.5	163	143	22*22*26
JR125	80	30	F07/F10	70/102	4-M8/M10	19	299	330	151	71.5	174	154	22*22*26
JR140	80	30	F10/F12	102/125	4-M10/M12	24	332	389	164	77	192	172	27*27*30
													#22*22*26
JR160	80	30	F10/F12	102/125	4-M10/M12	24	364	416	184	89	216	196	27*27*30
JR185	80	30	F10/F12	102/125	4-M10/M12	24	434	465	217	103	244	224	36*36*30
JR210	130	30	F14	140	4-M16	36	444	527	231	115	284	254	36*36*30

Torque Table



Double Acting

unit : Nm

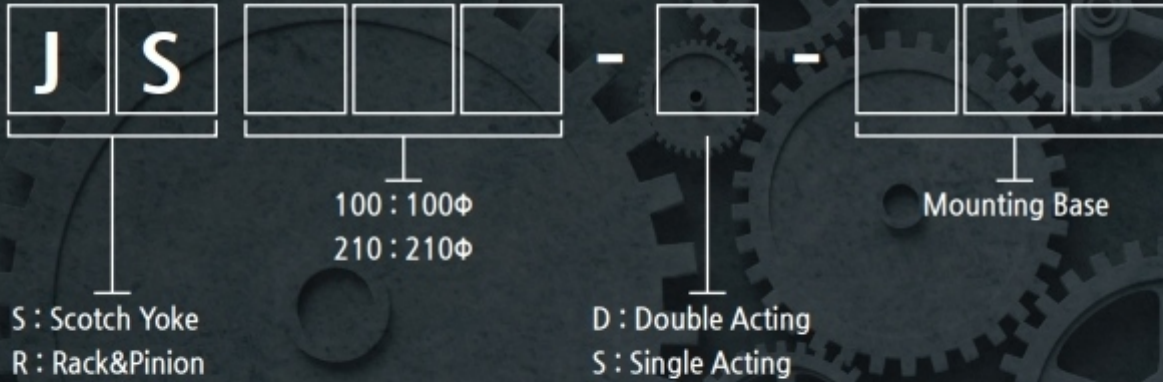
Model	Supply Air						
	3 Bar	4 Bar	4,5 Bar	5 Bar	6 Bar	7 Bar	8 Bar
JR032-D	2.38	3.14	3.52	3.90	4.75	5.70	6.56
JR040-D	5.51	7.41	8.36	9.22	11.12	13.02	14.82
JR050-D	9.41	12.54	14.25	15.87	19.10	22.52	25.84
JR065-D	18.34	24.70	27.84	30.78	36.77	42.94	49.21
JR080-D	44.46	58.90	66.50	74.39	89.30	104.31	117.80
JR090-D	57.19	76.19	85.69	95.19	114.19	133.19	152.19
JR100-D	79.52	105.45	118.75	132.05	158.65	185.25	211.85
JR115-D	123.50	166.25	187.15	209.00	251.75	294.50	337.25
JR125-D	161.50	218.50	247.00	270.75	327.75	384.75	437.00
JR140-D	237.50	318.25	361.00	399.00	479.75	560.50	641.25
JR160-D	327.75	441.75	494.00	551.00	669.75	779.00	893.00
JR185-D	475.00	641.25	722.00	802.75	964.25	1125.75	1287.25
JR210-D	679.25	912.00	1030.75	1144.75	1382.25	1615.00	1847.75

Single Acting

unit : Nm

Model	SPRING UNIT	Supply Air															
		3 Bar		4 Bar		4,5 Bar		5 Bar		6 Bar		7 Bar		8 Bar		SPRING	
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
JR040-S	8	1.0	0.0	2.9	0.5	3.8	1.2	4.8	2.1	6.7	3.8	8.6	5.1	10.5	6.4	5.9	3.9
JR050-S	8	4.1	1.2	7.4	4.4	9.0	6.1	10.7	7.6	14.2	11.1	17.3	14.5	20.8	18.0	8.1	5.2
JR065-S	8	4.1	1.2	8.7	3.6	14.7	9.5	17.9	12.5	21.1	15.7	27.2	22.0	33.3	28.1	13.7	8.4
JR080-S	8	21.1	6.1	35.3	21.0	42.9	29.1	50.5	35.7	65.6	51.3	80.8	66.4	95.7	80.5	33.7	21.7
JR090-S	8	27.7	6.7	47.3	25.7	56.6	35.2	65.8	44.7	85.1	63.7	104.1	82.7	123.1	101.7	43.9	27.2
JR100-S	8	34.9	4.8	60.8	29.6	74.1	43.7	83.7	56.1	113.1	81.9	139.7	108.3	166.3	135.9	67.6	40.9
JR115-S	8	61.8	23.8	104.5	66.5	128.3	85.5	147.3	109.3	190.0	152.0	232.8	190.0	275.5	237.5	85.5	52.3
JR125-S	8	76.0	28.5	128.3	80.8	156.8	109.3	180.5	137.8	237.5	194.8	289.8	247.0	346.8	304.0	114.0	71.3
JR140-S	8	114.0	42.8	194.8	123.5	237.5	166.3	275.5	204.3	356.3	289.8	437.0	370.5	517.8	451.3	175.8	104.5
JR160-S	8	147.3	52.3	261.3	166.3	318.3	218.5	375.3	280.3	489.3	394.3	603.3	508.3	712.5	622.3	242.3	161.5
JR185-S	8	204.3	66.5	365.8	228.0	446.5	304.0	532.0	384.8	693.5	546.3	850.3	703.0	1011.8	864.5	370.5	251.8
JR210-S	8	332.5	152.0	570.0	380.	684.0	498.8	802.8	617.5	1035.5	850.3	1263.5	1078.3	1496.3	1311.0	489.3	327.8

Product Code



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- Limit Switch
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입력전압 선택가능
- Air Set(Filter/Regulator)
- Speed Controller
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