

# Pneumatic actuator (A/R series)



## ► Model range



### A D 65

① ② ③

- ① A series - Scotch yoke  
R series - Rack Spinon
- ② D-Double acting  
S-Spring return
- ③ Internal diameter

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

## ► Model code

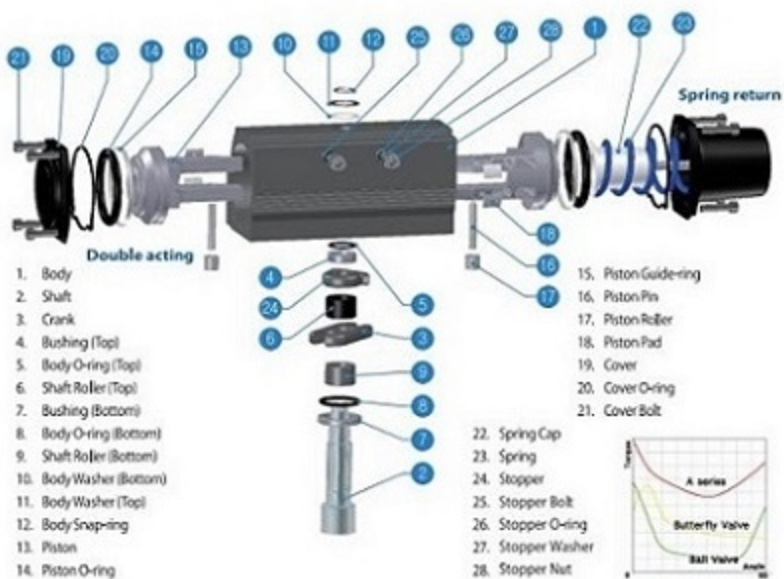
# A6ND-AKKB-1012C27-OP

②	③	④	⑤	⑥	⑦	⑧
Mechanism	SPRING	Action	Body color	Indicator	ISO5211	OPTION
A.Scotch yoke R.rack pinon	D.Double acting W.Wheel spring M.Middle spring	A.Action A (Fall closed) B.Action B (Fall open) C.Action C (Fall closed/Open CW) D.Action D (Fall open/Open CW)	K.Black L.Blue W.White Y.Yellow R.Red	K.A type L.B type C.C type D.D type	3.FD 5.FD I	14.PT1A 18.PT3B 22.PT1C N4.NPT1/4 N6.NPT3/8 N2.NPT1/2
<b>Diameter</b>	S.Strong spring H.Hand wheel No. RS spring qty		<b>Cover color</b>		<b>STEM</b>	O48.Open 45° (center stopper) S61.end cap stopper HW.Hand wheel
3.32 4.40			K.Black L.Blue W.White R.Red		C11.11/11 C14.14/14	
<b>ORING</b>						
N.NBR V.VITON (high temp.) E.EPDM (low temp.)						

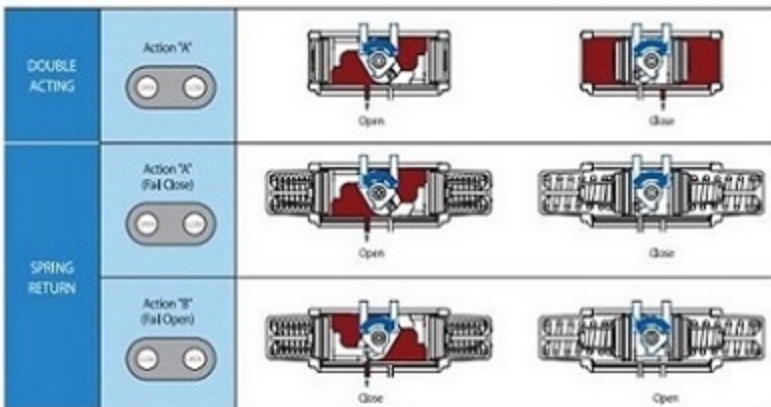
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Catalog Version : 4.1AR (Nov.2016)

## ► Part list



## ► Operating mechanism



## ► Dimension table



P	
A50-A210	PT1/4
	PT1/2
A250A300	RPT3/8
	RPT1/2

SCOTCH YOKER



unit : mm

MODEL	K1	ISO	P.C.D(Ø)	N-G	K	L1	L2	T	T1	H	H1	CH	DTH	AD Wt(Kg)	AS Wt(Kg)
A50	80	F03/F05/ F07	36/50/70	4-M5/M6/M8	9	162	257	75	40	90	70	11-11	13	1.4	1.6
												#16-14	14		
												#9.7-#15	14		
A65	80	F05/F07	50/70	4-M6/M8	13	202	314	80	46	107	87	#11.7-#17	17	2.3	3.0
												#9.7-#15	14		
												14-14	17		
A80	80	F07	70	4-M8	13	262	430	101	49.5	126	106	17-17	19	3.9	5.3
												#14.7-#19	20		
												22-22	26		
A100	80	F07/F10	70/102	4-M8/M10	19	311	500	129	61.5	148	128	#17.7-#22	26	6.7	9.5
												22-22	26		
A125	80	F07/F10	70/102	4-M8/M10	19	390	606	151	71.5	174	154	22-22	26	11.3	17.6
A140	80	F10/F12	102/125	4-M10/M12	24	431	682	164	77	192	172	27-27	30	16.4	23.9
												#22-22			
A160	80	F14	140	4-M16	24	506	781	188	89	216	196	30-36	30	23.7	36.6
		#F10/F12	#102/125	#8-M10/M12								#27-27			
A185	80	F14	140	4-M16	24	578	894	217	102	244	224	30-36	30	34.8	56.9
A210	130	F16	165	4-M20	36	605	982	231	115	284	254	46-46	60	45.5	77.2
		#F14		#36-36								50			
A250	130	F16	165	4-M20	36	755	1198	301	152	335	305	46-46	60	66.8	119.8
A300	130	F10/F25	165/254	4-M20/B-M16	36	900	1344	360	170	408	378	55-55	60	105.0	275.5

\*if is optional.

## ► Selection guide

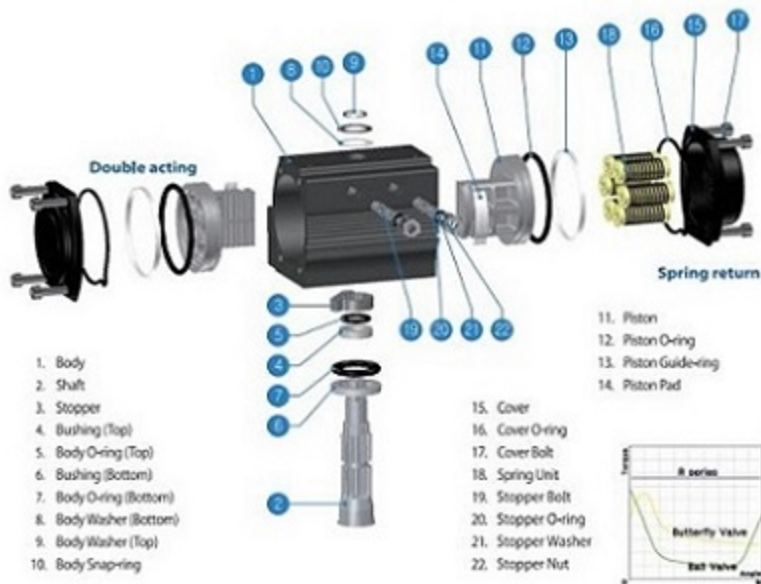
Valve Size		Double acting		Spring return	
		Ball valve	Butterfly valve	Ball valve	Butterfly valve
1/2"	15A	AD50		AS50	
3/4"	20A				
1"	25A				
1-1/4"	32A	AD65		AS65	
1-1/2"	40A				
2"	50A				
2-1/2"	65A	AD80		AS80	
3"	80A				
4"	100A				
5"	125A	AD100	AD65	AS100	AS80
6"	150A	AD125		AS125	
8"	200A	AD140		AS140	
10"	250A	AD160	AD60	AS160	AS100
12"	300A	AD185	AD100	AS185	
14"	350A	AD210	AD100	AS210	
16"	400A	AD250	AD125	AS250	AS140
18"	450A	AD300	AD140	AS300	AS160
20"-22"	500A-550A		AD160		AS185
24"-32"	800A-800A		AD185		AS210
36"-40"	850A-1000A		AD210		AS250
			AD300		AS300

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

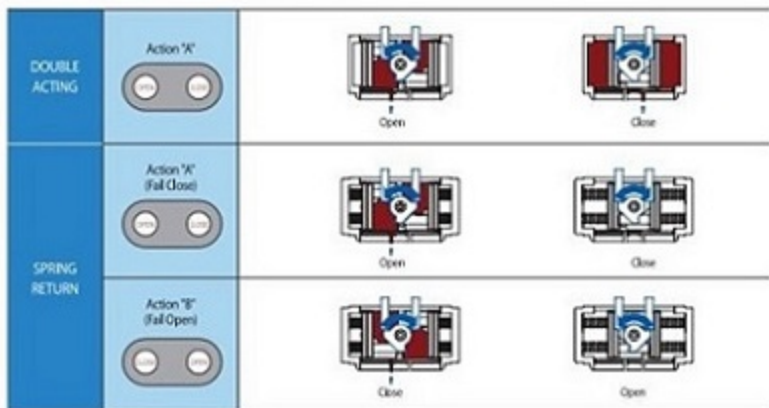
\*The data is not legally effective and therefore should not be used as legal ground.



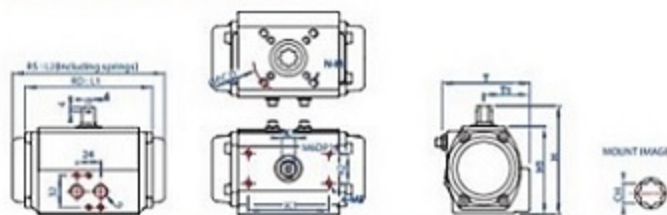
## ► Part list



## ► Operating mechanism



## ► Dimension table



P		P158
R32-R40	R50-R100	P154
	K1	K2
R32	25.5	25.5
R40	50	25
R50-R160	80	30
R185	80	30
R210	130	30

MODEL	ISO	P.C.D.(Ø)	N-G	K	L1	L2	T	T1	H	H1	CH	DTH	RD Wt(Kg)	RS Wt(Kg)
①RD32	F03	36	4-M5	7	66	-	45	25	55	45	9-9	9	0.3	-
①R40	FC3F05	36/50	4-MSM5	9	97	97	63	32	75	55	9-9	9	0.5	0.6
	#F04	#42	#4-M5											
R50	F03F05F07	36/50/70	4-MSM5M8	9	119	133	75	40	90	70	11-11	13	1.0	1.1
	#F04	#42	#4-M5											
R65	F05F07	50/70	4-MSM5	13	131	154	89	46	106.5	86.5	14-14	16	1.4	1.5
	#F04F07	#42/70	#4-MSM8											
R80	F07	70	4-M8	19	189	220	101	49.5	126	106	17-17	19	2.9	3.3
R90	F07	70	4-M8	19	188	223	104	54.5	136	116	17-17	19	3.4	3.8
R100	F07F10	70/102	4-M8M10	19	229	256	132	61.5	148	128	22-22	26	4.7	5.4
											#17-17	19		
R115	F07F10	70/102	4-M8M10	19	264	302	137	67.5	163	143	22-22	26	6.7	7.5
R125	F07F10	70/102	4-M8M10	19	299	330	151	71.5	174	154	22-22	26	8.6	9.9
R140	F10F12	102/125	4-M10M12	24	332	389	164	77	192	172	27-27	30	12.4	14.5
											#22-22	26		
R160	F10F12	102/125	4-M10M12	24	364	416	188	103.5	216	196	27-27	30	16.9	19.5
R185	F12	125	4-M12	24	434	465	217	103	244	224	36-36	30	24.2	29.0
R210	F14	140	4-M16	36	444	527	231	115	284	254	36-36	30	32.3	37.9

\*Model with '①' is compact type. They don't have angle stopper. \*F is optional.

## ► Selection guide

Valve Size	Double acting		Spring return		
	Ball valve	Butterfly valve	Ball valve	Butterfly valve	
1/2"	15A RD32 (1piece)	RD50	RS40		
3/4"	20A RD40 (1piece)		RS50		
1"	25A	RD65	RS65		
1-1/4"	32A		RS80		
1-1/2"	40A	RD80	RS90	RS50	
2"	50A		RS100	RS65	
2-1/2"	65A	RD90	RS115	RS80	
			RS125	RS90	
3"	80A	RD100/RD115	RD80	RS140	RS100
4"	100A	RD115/RD125		RS160	RS115
5"	125A	RD140	RD90	RS185	RS125
6"	150A	RD160	RD100	RS210	RS140
8"	200A	RD185	RD125	RS160	RS160
10"	250A	RD210	RD140	RS185	RS210
12"	300A		RD160	RS210	
14"	350A		RD185	RS210	
16"	400A		RD210		

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## ► RD series Torque table

MODEL	SUPPLY AIR							
	3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar	
RD32	2.4	3.1	3.5	3.9	4.8	5.7	6.6	
RD40	5.5	7.4	8.4	9.2	11.1	13.0	14.8	
RD50	8.4	12.5	14.3	15.9	19.1	22.5	25.8	
RD65	18.3	24.7	27.8	30.8	36.8	42.9	49.2	
RD80	44.5	58.9	66.5	74.4	88.3	104.3	117.8	
RD90	67.2	78.2	86.7	95.2	114.2	133.2	152.2	
RD100	79.5	105.5	118.8	132.1	158.7	185.3	211.9	
RD115	123.5	166.3	187.2	209.0	251.8	294.5	337.3	
RD125	161.5	218.5	247.0	270.8	327.8	384.8	437.0	
RD140	237.5	318.3	361.0	399.0	479.8	560.5	641.3	
RD160	327.8	441.8	494.0	551.0	669.8	779.0	893.0	
RD185	475.0	641.3	722.0	802.8	964.3	1,125.8	1,287.3	
RD210	679.3	912.0	1,030.8	1,144.8	1,382.3	1,615.0	1,847.8	

