





AUTOMA

60 Years & 1981 Specialization

automatic valves

AUTOMA

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☎ 2004 YEAR



AD SERIES

ROTARY ACTUATOR / DOUBLE ACTING

Ball Valve, Butterfly Valve, Plug Valve, Damper Control



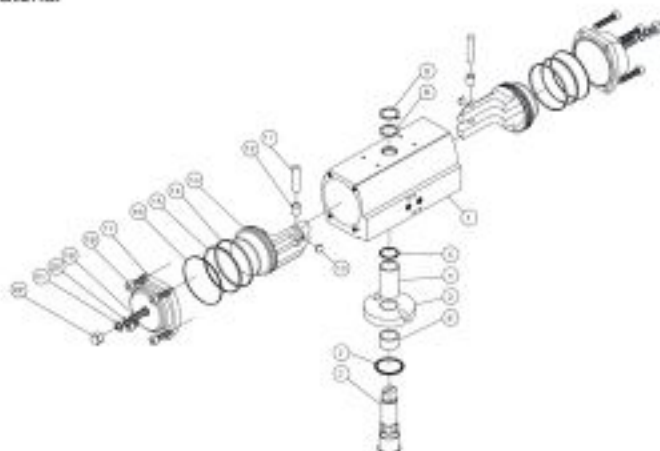
● Features

- Scotch - Yoke type
- No metal to metal touch
- ISO 5211, DIN 3337
- Anodized surface & double coated interior

● Specification

Item	AD40	AD50	AD65	AD80	AD100	AD140	AD200	AD200D	AD250D	AD300D
Operating Type	R&P	Scotch - Yoke					Piston			
Operating Media	Compressed Dry Air									
Operating Pressure	4 ~ 7kg/cm ²									
Rotating Angle	90° ±3°									
Operating Temperature	-10 ~ 60℃									
Weight (kg)	0.7	1.3	2.2	3.9	7.4	17.6	63	89	104	226

● Part and Material

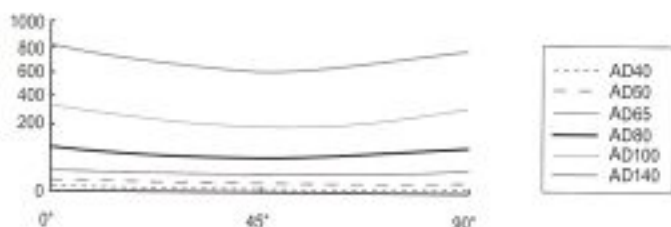


No.	Part Name	Materials	No.	Part Name	Materials
1	Body	Aluminum Alloy	12	Guide Bushing	Polyphthalamide
2	Drive Shaft	Steel Alloy (Nickel plated)	13	Dynamic Pad	Polyphthalamide
3	Crank	Steel Alloy (Nickel plated)	14	Piston Guide	Polyphthalamide
4	Bushing	Acetyl	15	O-ring (Guide)	NBR
5	O-Ring	NBR	16	O-ring (Cover)	NBR
6	Bushing	Acetyl	17	Cover	Aluminum Alloy
7	Washer	Polyphthalamide	18	Bolt	Stainless Steel
8	Washer	Polyphthalamide	19	Adjust Bolt	Stainless Steel
9	C-Ring	Stainless Steel	20	Adjust O-ring	NBR
10	Piston	Aluminum Alloy	21	Adjust Washer	Stainless Steel
11	Piston Pin	Steel Alloy (Nickel plated)	22	Adjust Nut	Stainless Steel

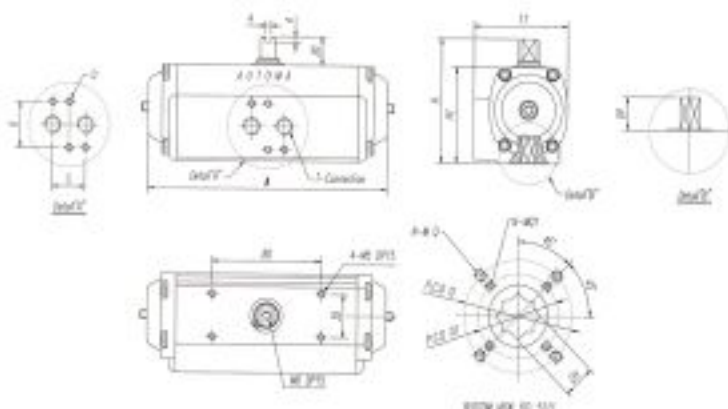
● Torque Table (N-m)

Model	Angle	4bar	5bar	6bar	Model	Angle	4bar	5bar	6bar
AD40	0°	6	9	11	AD80	0°	102	128	153
	45°	6	9	11		45°	84	105	125
	90°	6	9	11		90°	140	163	186
AD50	0°	25	30	35	AD100	0°	270	320	360
	45°	18	22	27		45°	150	180	221
	90°	27	33	45		90°	250	316	384
AD65	0°	64	79	96	AD140	0°	690	815	945
	45°	47	60	67		45°	472	585	693
	90°	71	88	105		90°	662	727	777

● Torque Curve



● Dimension



Model	A	D	R	S	H	H1	T1	DP	P.C.D-Q1	N-Q	P.C.D-Q	N-Q1	CH	T
AD40	108	M5	32	24	74	54	60	12	36	4-M5	-	-	9x9	1/8
AD50	178	M5	32	24	87	67	69	13	50	4-M6	-	-	11x11	1/4
AD65	232	M5	32	24	106	86	82	17	50	4-M8	70	4-M8	14x14	1/4
AD80	260	M5	32	24	123	103	98	22	70	4-M8	-	-	17x17	1/4
AD100	326	M5	32	24	143	123	114	30	70	4-M8	102	4-M10	22x22	1/4
AD140	462	M5	32	24	180	160	158	35	102	4-M10	125	4-M12	27x27	1/4

AS SERIES

ROTARY ACTUATOR / SPRING RETURN

Ball Valve, Butterfly Valve, Plug Valve, Damper Control



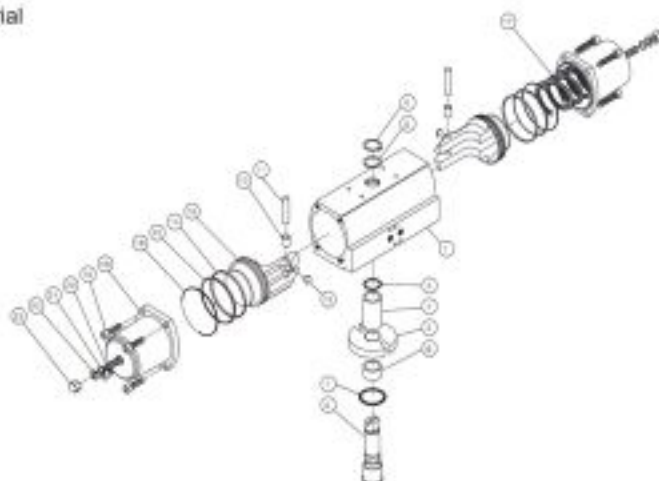
● Features

- Scotch - Yoke type
- No metal to metal touch
- I S O 5211, D I N 3337
- Anodized surface & double coated interior

● Specification

Item	AS40	AS50	AS65	AS80	AS100	AS140	AS200	AS200D
Operating Type	R&P	Scotch - Yoke					Piston	
Operating Media	Compressed Dry Air							
Operating Pressure	4.5 ~ 7kg/cm ²							
Rotating Angle	90° ±3°							
Operating Temperature	-10 ~ 60℃							
Weight (kg)	1	1.7	2.9	5.4	9.5	26.5	105	146

● Part and Material

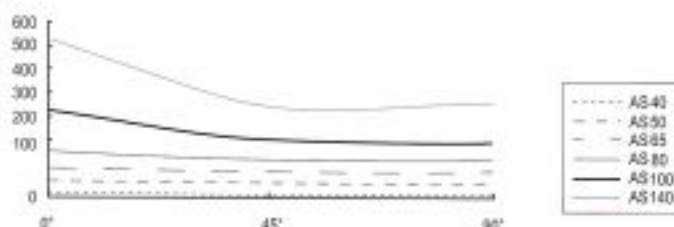


No.	Part Name	Material	No.	Part Name	Material
1	Body	Aluminum Alloy	12	Guide Bushing	Polyphthalamide
2	Drive Shaft	Steel Alloy (Nickel plated)	13	Dynamic Pad	Polyphthalamide
3	Crank	Steel Alloy (Nickel plated)	14	Piston Guide	Polyphthalamide
4	Bushing	Acetyl	15	O-ring (Guide)	NBR
5	O-Ring	NBR	16	O-ring (Cover)	NBR
6	Bushing	Acetyl	17	Spring	SUPG
7	Washer	Polyphthalamide	18	Bolt	Stainless Steel
8	Washer	Polyphthalamide	19	Adjust Bolt	Stainless Steel
9	C-Ring	Stainless Steel	20	Adjust O-ring	NBR
10	Piston	Aluminum Alloy	21	Adjust Washer	Stainless Steel
11	Piston Pin	Steel Alloy (Nickel plated)	22	Adjust Nut	Stainless Steel

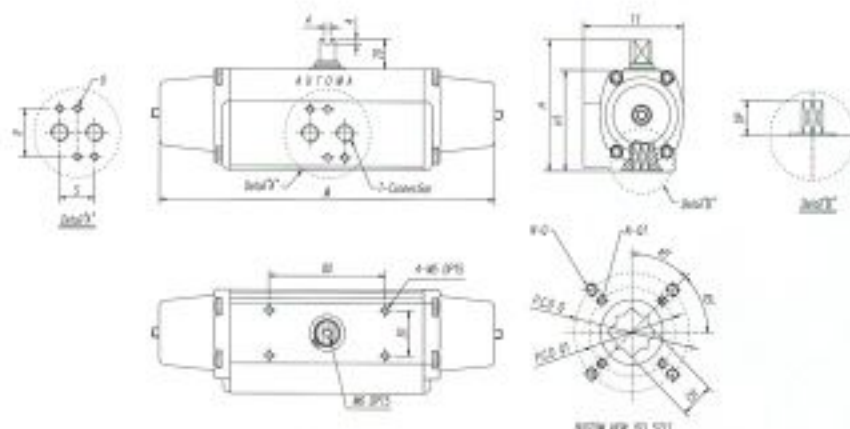
Torque Table (N-m)

Model	Angle	4.5bar	5bar	6bar	Spring	Model	Angle	4.5bar	5bar	6bar	Spring
AS40	0°	5	6	8	4	AS80	0°	91	104	129	45
	45°	3	4	6	6		45°	52	63	88	50
	90°	2	3	4	7		90°	48	61	92	61
AS50	0°	22	26	38	34	AS100	0°	117	143	197	135
	45°	7	10	15	17		45°	59	83	125	100
	90°	3	6	14	36		90°	30	59	114	205
AS65	0°	55	65	84	40	AS140	0°	447	508	667	283
	45°	27	33	45	22		45°	208	280	397	350
	90°	29	34	50	40		90°	171	273	563	422

Torque Curve



Dimension



Model	A	D	R	S	H	H1	T1	DP	PCD-Q1	N-Q	PCD-Q	N-Q1	CH	T
AS40	108	M5	32	24	74	54	60	12	38	4-M5	-	-	9x9	1/8
AS50	255	M5	32	24	87	67	69	13	50	4-M6	-	-	11x11	1/8
AS65	312	M5	32	24	106	86	82	17	50	4-M6	70	4-M8	14x14	1/4
AS80	400	M5	32	24	123	103	98	22	70	4-M8	-	-	17x17	1/4
AS100	450	M5	32	24	143	123	114	30	70	4-M8	102	4-M10	22x22	1/4
AS140	647	M5	32	24	180	160	158	35	102	4-M10	125	4-M12	27x27	1/4

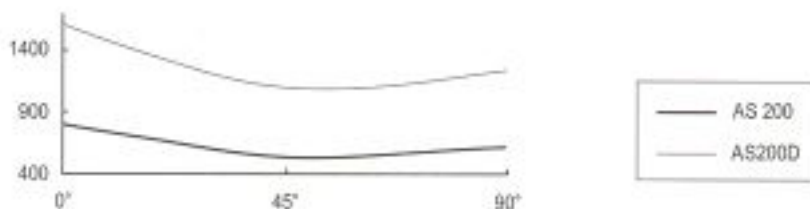
HEAVY DUTY - SINGLE ACTING

ACTUATOR ACTUATOR / PISTON TYPE

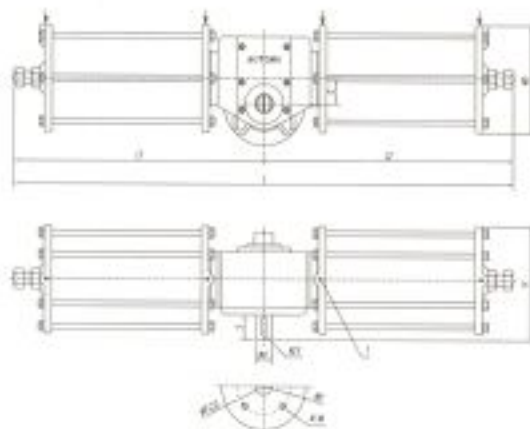
- Torque Table (N-m)

Model	Angle	4.5bar	5bar	6bar	Spring	Model	Angle	4bar	5bar	6bar	Spring
AS200	0°	680	805	1050	720	AS200D	0°	1360	1610	2100	1320
	45°	425	542	705	936		45°	850	1085	1365	1716
	90°	510	630	820	1080		90°	1020	1260	1610	1980

- Torque Curve



- Dimension



Model	H	L	L1	L2	G	S1	φd	φB	φP.C.D	N-M	KEY	T
AS200	256	1120	350	770	71	60	55	200	165	4-M20	16x10x55	3/8"
AS200D	256	1540	770	770	71	60	55	200	165	4-M20	16x10x55	3/8"

1 PIECE SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



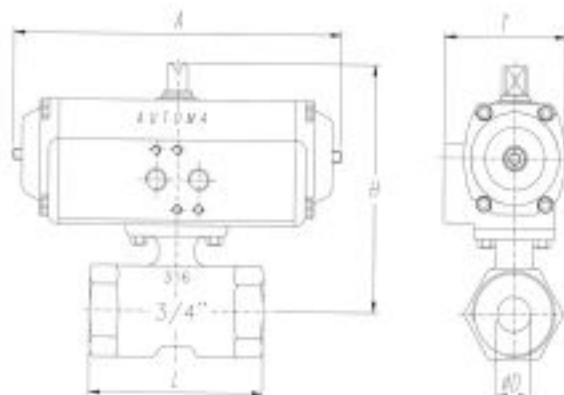
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AD40					AD50	
Actuator Type	Double Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4 ~ 7kg/cm ²						
Rotating Angle	90° ± 3°						
Fluid Temperature	-10 ~ 90℃						
Pressure Range	10kgf/cm ²						
Body Material	SUS316/Body			SUS316/Ball		PTFE/Seat	
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner						

● Dimension



							(mm)
Model	Size		A	H	L	T	ØD
AD40-10S1	10A	3/8"	108	97	45	60	7.7
AD40-15S1	15A	1/2"	108	99	56.5	60	9.2
AD40-20S1	20A	3/4"	108	112	59	60	12.5
AD40-25S1	25A	1"	108	120	71	60	15
AD40-32S1	32A	1-1/4"	108	123	78	60	20
AD50-40S1	40A	1-1/2"	178	148	82	69	25
AD50-50S1	50A	2"	178	154	100	69	32

1 PIECE SCREWED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



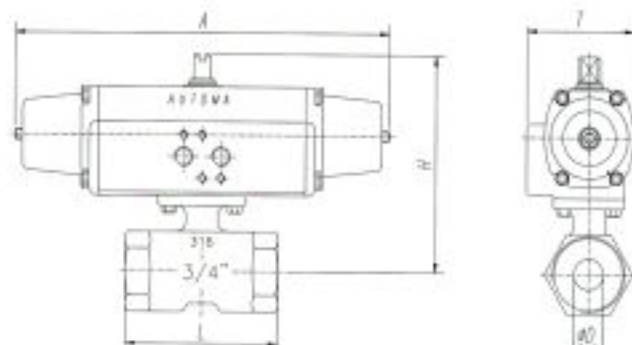
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AS40				AS50		AS65
Actuator Type	Single Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4.5 ~ 7kg/cm ²						
Rotating Angle	90° ± 3°						
Fluid Temperature	-10 ~ 90℃						
Pressure Range	10kgf/cm ²						
Body Material	SUS316/Body			SUS316/Ball	PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner						

● Dimension



							(mm)
Model	Size		A	H	L	T	φD
AS40-10S1	10A	3/8"	108	97	45	60	7.7
AS40-15S1	15A	1/2"	108	99	56.5	60	9.2
AS40-20S1	20A	3/4"	108	99	59	60	12.5
AS40-25S1	25A	1"	108	107	71	60	15
AS50-32S1	32A	1-1/4"	255	123	78	69	20
AS50-40S1	40A	1-1/2"	255	137	82	69	25
AS65-50S1	50A	2"	312	162	100	82.5	32

3 PIECE SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



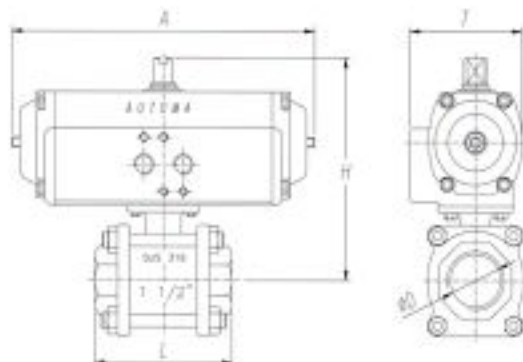
Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

Specification

Valve Size	8A(1/4")	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AD40				AD50		AD65	
Actuator Type	Double Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4 ~ 7kg/cm ²							
Rotating Angle	90° ± 3°							
Fluid Temperature	-10 ~ 90℃							
Pressure Range	10kgf/cm ²							
Body Material	SUS316/Body				SUS316/Ball		PTFE/Seat	
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner							

Dimension



(mm)

Model	Size		A	H	L	T	φD
AD40-8S3	8A	1/4"	108	114	60	60	8
AD40-10S3	10A	3/8"	108	114	60	60	10
AD40-15S3	15A	1/2"	108	114	65	60	15
AD40-20S3	20A	3/4"	108	116	75	60	20
AD50-25S3	25A	1"	178	138	85	69	25
AD50-32S3	32A	1-1/4"	178	142	100	69	32
AD65-40S3	40A	1-1/2"	232	154	110	82	40
AD65-50S3	50A	2"	232	160	130	82	50

3 PIECE SCREWED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



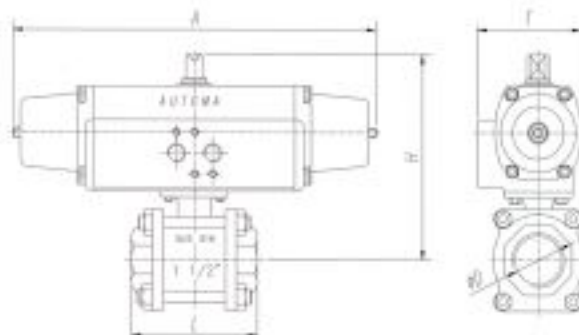
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	8A(1/4")	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AS40		AS50			AS65		
Actuator Type	Single Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4.5 ~ 7kgf/cm ²							
Rotating Angle	90° ±3°							
Fluid Temperature	-10 ~ 90℃							
Pressure Range	10kgf/cm ²							
Body Material	SUS316/Body			SUS316/Ball		PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner							

● Dimension



(mm)

Model	Size		A	H	L	T	ØD
AS40-8S3	8A	1/4"	108	114	60	60	8
AS40-10S3	10A	3/8"	108	114	60	60	10
AS50-15S3	15A	1/2"	255	126	66	69	15
AS50-20S3	20A	3/4"	255	130	75	69	20
AS50-25S3	25A	1"	255	138	85	69	25
AS65-32S3	32A	1-1/4"	312	162	100	82	32
AS65-40S3	40A	1-1/2"	312	172	110	82	40
AS65-50S3	50A	2"	312	180	130	82	50

FLANGED BALL VALVE - DOUBLE ACTING

ASTARY ACTUATOR



Application

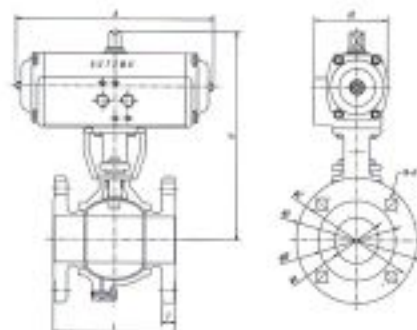
- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

Specification

Valve Size	15A - 350A		
Actuator Model	AD50 - AD300D		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 - 7kg/cm ²		
Rotating Angle	90° ± 3°		
Fluid Temperature	-10 ~ 90°C (-10 ~ 150°F)		
Rating	JIS10K (20K) (40K) ANSI150# (300#) (600#)		
Body Material	SUS304 (SUS316) Body	SUS304 (SUS316) Ball	PTFE (GRAPHITE) Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner		

Dimension

※ () Option



JIS10K RF (mm)

Model	Size		A	A1	H	L		Flange						
	mm	inch				10K	20K	T	d	RF	C	D	N-H	
AD50-15F	15A	1/2"	178	89	186	106	140	12	15	52	70	95	4-15	
AD50-20F	20A	3/4"	178	89	172	117	152	14	20	58	75	100	4-15	
AD50-25F	25A	1"	178	89	180	127	165	14	25	70	90	125	4-19	
AD65-32F	32A	1-1/4"	232	82	208	140	178	16	32	80	100	135	4-19	
AD65-40F	40A	1-1/2"	232	82	223	165	190	16	40	86	105	140	4-19	
AD65-50F	50A	2"	232	82	235	178	216	16	50	100	120	155	4-19	
AD80-65F	65A	2-1/2"	260	98	285	190	241	18	65	120	140	175	4-19	
AD80-80F	80A	3"	260	98	304	203	283	18	80	130	150	185	8-19	
AD100-100F	100A	4"	326	114	350	229	305	18	100	155	175	210	8-19	
AD140-125F	125A	5"	462	158	425	356	381	20	125	185	210	250	8-23	
AD140-150F	150A	6"	462	158	470	394	403	22	150	215	240	280	8-23	
AD200-200F	200A	8"	780	260	643	457	502	22	200	295	290	330	12-23	
AD200D-250F	250A	10"	890	260	670	533	568	24	250	325	365	400	12-25	
AD250D-300F	300A	12"	890	307	1078	610	648	24	300	375	400	445	16-25	
AD300D-350F	350A	14"	1450	370	1058	686	762	28	350	415	445	490	16-25	

FLANGED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



Application

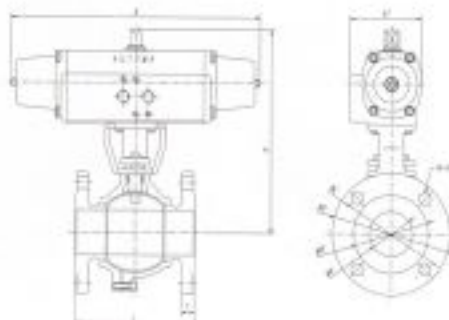
- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes.

Specification

Valve Size	15A ~ 250A		
Actuator Model	AS50 ~ AS200D		
Actuator Type	Single Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ± 3°		
Fluid Temperature	-10 ~ 90°C (-10 ~ 150 °C)		
Rating	JIS10K (20K) (40K)	ANSI150# (300#) (600#)	
Body Material	SUS304 (SUS316)Body	SUS304 (SUS316)Ball	PTFE (GRAPHITE)Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner		

Dimension

* [] Option



JIS10K RF (mm)

Model	Size		A	A1	H	L		Flange					
	mm	inch				10K	20K	T	d	RF	C	D	N-H
AS50-15F	15A	1/2"	255	89	168	105	140	12	15	52	70	95	4-15
AS50-20F	20A	3/4"	255	89	172	117	152	14	20	58	75	100	4-15
AS65-25F	25A	1"	312	82	193	127	165	14	25	70	90	125	4-19
AS65-32F	32A	1-1/4"	312	82	208	140	178	16	32	80	100	135	4-19
AS65-40F	40A	1-1/2"	312	82	223	165	190	16	40	85	105	140	4-19
AS80-50F	50A	2"	400	98	270	178	216	16	50	100	120	155	4-19
AS80-65F	65A	2-1/2"	400	98	285	190	241	18	65	120	140	175	4-19
AS100-80F	80A	3"	450	114	320	203	263	18	80	130	150	185	8-19
AS140-100F	100A	4"	647	158	388	229	305	18	100	155	175	210	8-19
AS140-125F	125A	5"	647	158	425	356	351	20	125	185	210	250	8-23
AS200-150F	150A	6"	1120	260	598	394	403	22	150	215	240	280	8-23
AS200D-200F	200A	8"	1540	260	643	457	502	22	200	265	290	330	12-23
AS200D-250F	250A	10"	1540	260	670	533	568	24	250	325	355	400	12-25



Application

- Water distribution pipes
- Industrial cleaning machines
- Sanitizers, Bsters
- Air ventilation
- Medical equipments, Vacuum packing
- Air ventilation systems

Specification

Valve Size	40A - 1000A		
Actuator Model	AD50 - AD5000		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	8 - 10kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	0 - 85°C (-20 - 200°C)		
Rating	1500W Water	1500W Water	
Body Material	PC (BURST) Body	BURST (BURST) Body	EPDM (MTPE) Body
Accessory	Solvent Valve, Air Filter Regulator, Limit Switch Box, S/P Positioner		

Option

Dimension



UNIT: mm (in)

Model	Size		A	A1	H	H1	L	Flange		
	mm	inch						D	C	S
AD50-400F	40A	1-1/2"	175	69	190	54	32	86	105	4-19
AD50-500F	50A	2"	175	69	217	54	43	105	120	4-19
AD50-650F	65A	2-1/2"	175	69	237	71	46	114	140	4-19
AD65-800F	80A	3"	230	82	256	80	46	129	150	5-19
AD65-1000F	100A	4"	230	82	270	95	52	155	175	5-19
AD80-1250F	125A	5"	290	94	300	115	55	180	210	6-25
AD80-1500F	150A	6"	290	94	314	124	55	207	240	6-25
AD100-2000F	200A	8"	326	114	406	163	60	260	290	10-25
AD100-2500F	250A	10"	326	114	428	227	64	321	365	10-25
AD140-3000F	300A	12"	462	156	600	262	58	377	400	16-26
AD140-3500F	350A	14"	462	156	770	271	58	475	445	16-26
AD200-4000F	400A	16"	780	260	929	343	60	475	510	16-27
AD200-4500F	450A	18"	780	260	969	364	114	538	565	20-27
AD200-5000F	500A	20"	780	260	1113	427	137	590	620	20-27
AD2500-6000F	600A	24"	890	350	1390	493	154	695	730	24-33
AD2500-8000F	800A	32"	890	357	1674	600	180	920	950	28-33
AD3000-10000F	1000A	40"	1490	575	2007	750	200	1125	1180	28-36

BUTTERFLY VALVE - SINGLE ACTING

ARMAT AUTOMAT



Application

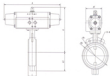
- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air ventilation
- Medical equipments, Vacuum packing
- Air ventilation systems

Specification

Valve Size	40A ~ 500A		
Actuator Model	A050 ~ A00000		
Actuator Type	Single Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ± 3°		
Fluid Temperature	0 ~ 80℃ (-20 ~ 200℉)		
Rating	AS10N Water		AAS150N Water
Body Material	FC (SUS304) Body	SUS304 (SUS11Cr) Disc	EPDM (MTPE) Seat
Accessory	Soleno Valve, Air Filter Regulator, Limit Switch Box, S-P Positioner		

□ □ Option

Dimension



AS10N (AS10N) (mm)

Model	Size		A	A1	H	H1	L	Flange		
	mm	inch						D	C	B (mm)
A050-0080	40A	1-1/2"	250	80	190	90	35	80	100	4-10
A050-1080	50A	2"	290	80	217	90	45	100	120	4-10
A080-0080	60A	2-1/2"	310	80	240	71	40	114	140	4-10
A080-0080	80A	3"	310	80	290	83	40	120	150	8-10
A080-1000	100A	4"	400	90	287	90	52	150	170	8-10
A080-1200	120A	5"	400	90	314	110	50	160	210	8-21
A0100-1500	150A	6"	490	114	334	124	50	207	240	8-21
A0100-2000	200A	8"	490	114	400	163	50	260	280	12-25
A0140-2500	250A	10"	647	150	485	227	60	320	360	12-25
A0140-3000	300A	12"	647	150	500	252	70	377	400	16-26
A0200-3000	350A	14"	1100	260	812	271	70	470	440	16-26
A0200-4000	400A	16"	1100	260	820	243	100	470	510	16-27
A0200-4000	450A	18"	1100	260	880	260	114	530	580	20-27
A0200-5000	500A	20"	1540	260	1120	421	127	580	620	20-27
A0200-6000	600A	24"	1540	260	1280	493	154	690	730	24-33

3-WAY FLANGED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



● Application

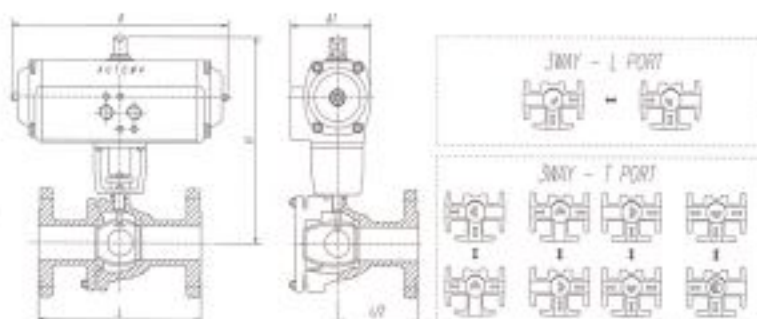
- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

● Specification

Valve Size	15A ~ 250A		
Actuator Model	AD50 ~ AD300D		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ± 3°		
Fluid Temperature	-10 ~ 90°C (-10 ~ 150°C)		
Rating	JS10K (20K)	ANSI150# (300#)	
Body Material	SUS304 (SUS316) Body	SUS304 (SUS316) Ball	PTFE (GRAPHITE) Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner		

● () Option

● Dimension



JS10K RF (mm)

Model	Size		A	A1	H	L	L/2
	mm	inch					
AD50-15F	15A	1/2"	178	69	166	180	90
AD50-20F	20A	3/4"	178	69	172	190	95
AD65-25F	25A	1"	232	82	193	200	100
AD65-40F	40A	1-1/2"	232	82	223	240	120
AD80-50F	50A	2"	260	98	270	260	130
AD80-65F	65A	2-1/2"	260	98	285	320	160
AD100-80F	80A	3"	326	114	320	360	180
AD140-100F	100A	4"	462	158	350	430	215
AD200-125F	125A	5"	780	260	425	520	260
AD200-150F	150A	6"	890	290	470	560	280
AD250D-200F	200A	8"	890	307	643	660	330

3-WAY SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



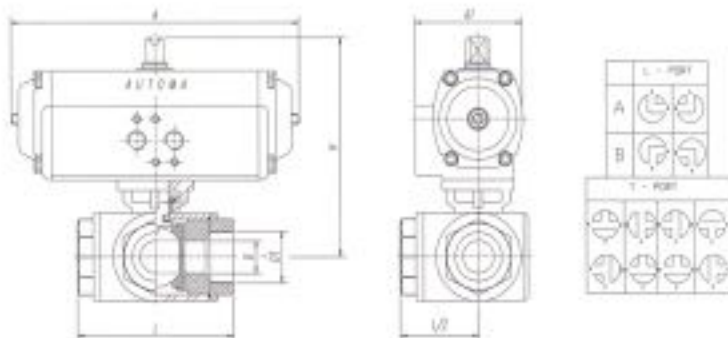
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AD40		AD50			AD65	
Actuator Type	Double Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4 ~ 7kg/cm ²						
Rotating Angle	90° ± 3°						
Fluid Temperature	-10 ~ 90℃						
Pressure Range	10kgf/cm ²						
Body Material	SUS316/Body			SUS316/Ball	PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E-P Positioner						

● Dimension



(mm)

Model	Size		A	A1	L	L/2	φD1	φD	H
AD40-10S3W	10A	3/8"	108	114	80	40	3/8"	12	130
AD40-15S3W	15A	1/2"	108	114	80	40	1/2"	12.7	143
AD50-20S3W	20A	3/4"	178	116	87.5	43.7	3/4"	15	153
AD50-25S3W	25A	1"	178	136	100	50	1"	20	161
AD65-32S3W	32A	1-1/4"	232	142	123	61.5	1-1/4"	25	196
AD65-40S3W	40A	1-1/2"	232	164	142.2	71.1	1-1/2"	32	203
AD65-50S3W	50A	2"	232	180	170.6	85.3	2"	40	222

LIMIT SWITCH BOX

ACCESSORY



● Features

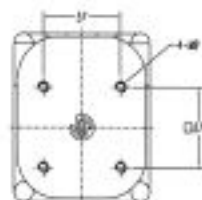
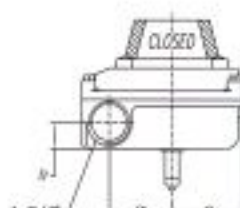
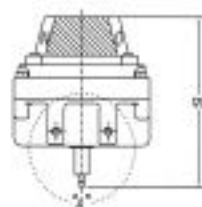
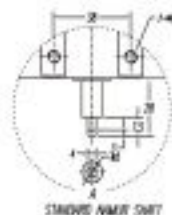
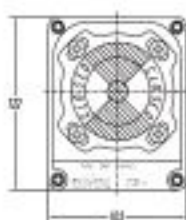
- Visual position indicator
- Quick-Set cam
- Multipoint terminal strip
- Dual wire potting
- Captive cover bolts
- Easy mounting bracket (ISO5211)

● Specification

Model	ALS10
Enclosure	Weatherproof, IP67
Temperature Range	-20 ~ 85℃
Cable Entry	2 x 1/2" PF (PT) (NPT) (M20)
Terminal Strip	8 Points
Position Indicator	0 ~ 90° : Open-Yellow, Close-Red
Switch Type	2SPDT Mechanical switches (Proximity sensors)
Painting	Polyester powder coating with black color
Bracket	Plastic, Plate steel

= [] Option

● Dimension



LIMIT SWITCH BOX

ACCESSORY



● Features

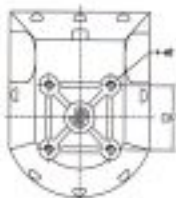
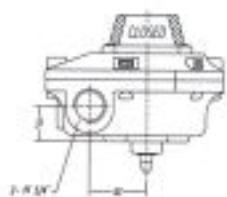
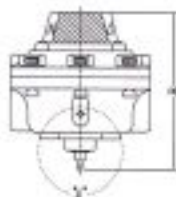
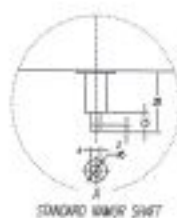
- Visual position indicator
- Quick-Set cam
- Multipoint terminal strip
- Dual wire potting
- Captive cover bolts
- Easy mounting bracket (ISO5211)

● Specification

Model	ALS20
Enclosure	Explosion proof(Exd IIB T6), IP67
Temperature Range	-20 ~ 85℃
Cable Entry	2 x 3/4" PF (PT) (NPT) (M20)
Terminal Strip	8 Points
Position Indicator	0 ~ 90° : Open-Yellow, Close-Red
Switch Type	2SPDT Mechanical switches (Proximity sensors)
Painting	Polyester powder coating with black color
Bracket	Plastic, Plate steel

● () Option

● Dimension



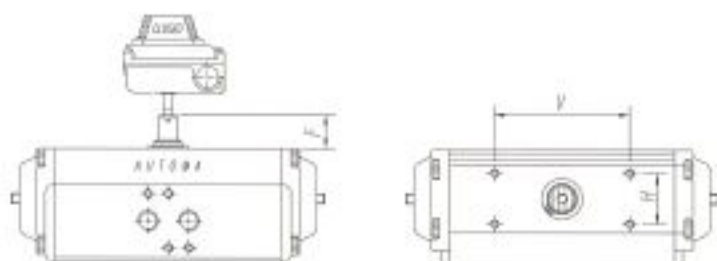
LIMIT SWITCH BOX

ACCESSORY

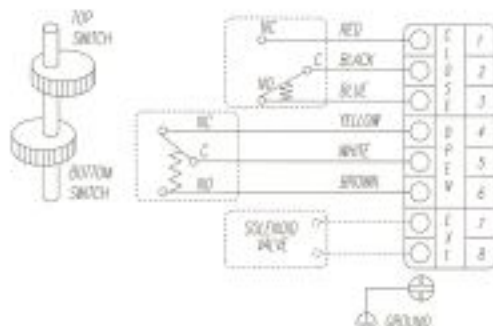
- Mounting Bracket

NAMUR standard bracket and mounting bolts/nuts are provided together with limit switch box as standard

	Model	Material	Size (HxVxF)
	P - 1 (ALS10, ALS20)	Plastic (ABS)	30 X 80 F:20
	S - 1 (ALS10)	Steel	30 X 38 F:20-30
	S - 2 (ALS20)	Steel	30 X 80 F:20
	S - 3 (ALS20)	Steel	30 X 130 F:30
	S - 4 (ALS20)	Steel	30 X 80 F:30



- Wiring Diagram



SOLENOID VALVE

ACCESSORY

SN4101 Series



● Features

- 5Port pilot type
- NAMUR interface
- Compact - light weight
- Mass flow - CV1.8
- Effective sectional area - 35.0mm²
- Excellent endurance

● Specification

Model	SN4101 (Single coil)	SN4201 (Double coil)
Enclosure	IP65	
Fluids	Air & Inert Gases	
Pressure (Bar)	1.5 ~ 10	1.0 ~ 10
Ambient Temperature	5 ~ 60°C	
Response Time	50/sec	30/sec
Lubrication	Not required	
Rated Voltage	AC110V, 220V (50/60Hz), DC24V	
Coil Insulation	±10%	

VPA5 Series



● Features

- 5Port pilot type
- NAMUR interface
- Large flow capacity with compact design
- Easy maintenance
- Exd IIB T4 (IP65)

● Specification

Model	VPA512 (Single coil)	VPA522 (Double coil)
Enclosure	Exd IIB T4, IP65	
Fluids	Air & Inert Gases	
Pressure (Bar)	1.2 ~ 10	
Ambient Temperature	-20 ~ 60°C	
CV	0.9 / Orifice size : 7mm	
Lubrication	Not required	
Rated Voltage	AC100V, AC220V(50/60Hz), DC24V	
Conduit Connection	1/2" PF	

AIR FILTER REGULATOR

ACCESSORY

SAW2000M



● Features

- Compact design
- Pressure adjustment without a tool
- Panel mounting possible (mounting bracket)
- One-touch attaching / detaching of bowl and element

● Specification

Model	SAW2000M
Max. Supply pressure	1.5Mpa (15.3kgf/cm ²)
Max. Operating Pressure	0.97Mpa (9.9kgf/cm ²)
Regulating Range	50~850Kpa (15.3kgf/cm ²)
Operating Pressure	0.12~0.99Mpa (0.5~8.7kgf/cm ²)
Ambient and media Temperature	5~50 °C
Filtration	Standard: 10µm Option: 2, 5, 20, 40
Bowl Material	Poly carbonate, Metal
Construction	Relief type

Electro-Pneumatic Positioner



● Features

- Easy maintenance
- Simple SPAN and ZERO adjustments
- NAMUR mounting
- Simple structure for feedback connection
- Simple conversion to direct acting and reverse acting

● Specification

Model	EPR (Rotary type)	EPL (Linear type)
Enclosure	Exmd II B T6, Exmd II C (H2) T6, IP66, Exia II BT6	
Fluids	Air	
Input Signal	4 ~ 20mA DC	
Split range Application	4~12 or 12~20mA	
Voltage Supply Min./Max.	8 Vdc / 30Vdc	
Linearity	< 1.0 %	
Hysteresis	< 0.5 %	
Sensitivity	< 0.5 %	
Operating Temperature	-20 ~ 60 °C	
Air Piping Connection	1/4" PT	
Conduit Connection	1/2" PF	

SPEED CONTROLLER

ACCESSORY

Speed Controller



● Features

The speed controller is installed on actuators such as cylinders and air motors. It controls the operating speed of the actuator by adjusting the flow through the actuator.

● Specification

Model	FC Series		
	FC3-8	FC3G-8	FC1-8
Operating Pressure	0.5 ~ 15.3 kgf/cm ²		
Fluids Temperature	5 ~ 60 °C		
Operating Temperature	-10 ~ 60 °C		
No. of Needle Rotations	14		10
Port Size	1/4" PT		

Silencer



● Features

Silencers are designed to attenuate the exhaust noise caused by control of pneumatic lines. In general, silencers are mounted on the exhaust ports of solenoid valve, directional control valves and like, to reduce exhaust noise when direction is changed. This contributes to overall noise reduction in plants.

● Specification

Model	SL Series	
	SLW-8A	SL-8A
Operating Pressure	0 ~ 10.07 kgf/cm ²	
Fluids Temperature	5 ~ 60 °C	
Operating Temperature	-10 ~ 60 °C	
Noise	20dB	
Port Size	1/4" PT	
Material	Plastic	Metal