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Automatic Valve & Accessory

PNEUMATIC VALVE



1-PIECE SCREWED BALL VALVE - DOUBLE ACTING



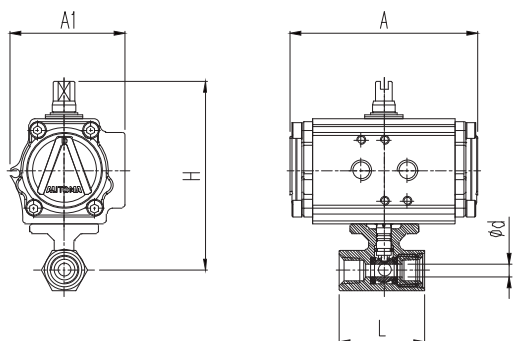
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing

Specification

• This is subject to change.

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	ADR40					ADR65	
Actuator Type	Double Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4 ~ 7kg/cm ²						
Rotating Angle	90° ± 5°						
Fluid Temperature	-20°C ~ 80°C						
Rating	1000psi						
Body Material	A351-CF8 / Body		A351-CF8 / Ball			PTFE / Seat	
Accessory	Solenoid Valve, Limit Switch Box, Air Filter Regulator, E/P Positioner						



Dimension

• END CONNECTION : PT SCREW (mm)

Model	Size		A	A1	H Approx.	L	Φd
	mm	Inch					
ADR40-10S1	10A	3/8"	96	63	110	45	7
ADR40-15S1	15A	1/2"	96	63	111	55	9.2
ADR40-20S1	20A	3/4"	96	63	117	60	12.5
ADR40-25S1	25A	1"	96	63	120	73	15
ADR40-32S1	32A	1-1/4"	96	63	123	78	20
ADR65-40S1	40A	1-1/2"	131	89	159	89	25
ADR65-50S1	50A	2"	131	89	167	100	32

1-PIECE SCREWED BALL VALVE - SINGLE ACTING



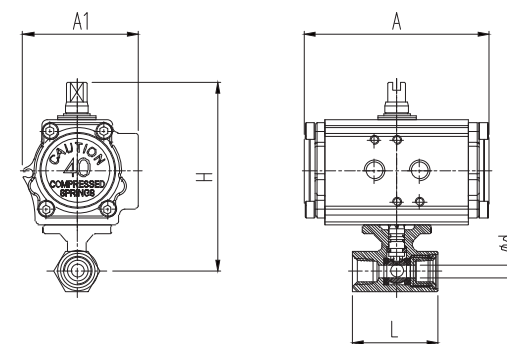
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing

Specification

• This is subject to change.

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	ASR40	ASR50			ASR65		ASR80
Actuator Type	Single Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4.5 ~ 7kg/cm ²						
Rotating Angle	90° ± 5°						
Fluid Temperature	-20°C ~ 80°C						
Rating	1000psi						
Body Material	A351-CF8 / Body			A351-CF8 / Ball		PTFE / Seat	
Accessory	Solenoid Valve, Limit Switch Box, Air Filter Regulator, E/P Positioner						



Dimension

• END CONNECTION : PT SCREW (mm)

Model	Size		A	A1	H Approx.	L	Φd
	mm	Inch					
ASR40-10S1	10A	3/8"	96	63	110	45	7
ASR50-15S1	15A	1/2"	133	75	126	55	9.2
ASR50-20S1	20A	3/4"	133	75	132	60	12.5
ASR50-25S1	25A	1"	133	75	135	73	15
ASR65-32S1	32A	1-1/4"	154	89	155	78	20
ASR65-40S1	40A	1-1/2"	154	89	159	89	25
ASR80-50S1	50A	2"	220	101	186	100	32

3-PIECE SCREWED BALL VALVE - DOUBLE ACTING



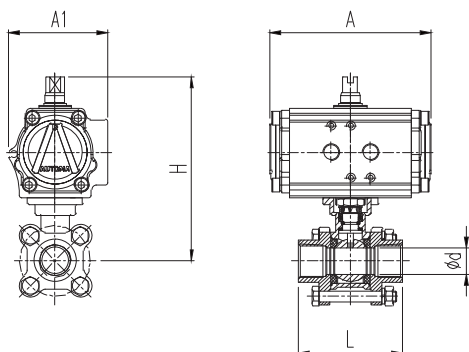
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing

Specification

• This is subject to change.

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	ADR40				ADR50	ADR65		ADR80
Actuator Type	Double Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4 ~ 7kg/cm ²							
Rotating Angle	90° ± 5°							
Fluid Temperature	-20°C ~ 80°C							
Rating	1000psi							
Body Material	A351-CF8 / Body			A351-CF8 / Ball			PTFE / Seat	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner							



Dimension

• END CONNECTION : PT SCREW (mm)

Model	Size		A	A1	H Approx.	L	Φd
	mm	Inch					
ADR40-8S3	8A	1/4"	96	63	124	64	12.5
ADR40-10S3	10A	3/8"	96	63	124	64	12.5
ADR40-15S3	15A	1/2"	96	63	127	72	15
ADR40-20S3	20A	3/4"	96	63	133	80	20
ADR50-25S3	25A	1"	119	75	155	85	25
ADR65-32S3	32A	1-1/4"	131	89	177	105	32
ADR65-40S3	40A	1-1/2"	131	89	187	113	38
ADR80-50S3	50A	2"	189	101	221	132	50

3-PIECE SCREWED BALL VALVE - SINGLE ACTING



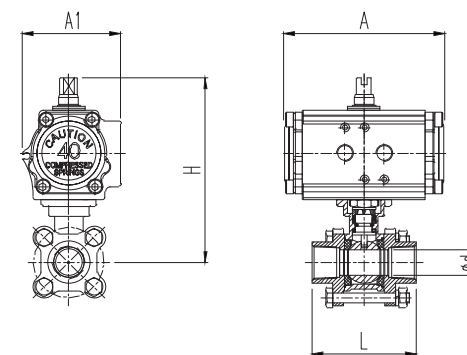
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing

Specification

• This is subject to change.

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	ASR40	ASR50			ASR65		ASR80	
Actuator Type	Single Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4.5 ~ 7kg/cm ²							
Rotating Angle	90° ± 5°							
Fluid Temperature	-20°C ~ 80°C							
Rating	1000psi							
Body Material	A351-CF8 / Body			A351-CF8 / Ball			PTFE / Seat	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner							



Dimension

• END CONNECTION : PT SCREW (mm)

Model	Size		A	A1	H Approx.	L	Φd
	mm	Inch					
ASR40-8S3	8A	1/4"	96	63	124	64	12.5
ASR50-10S3	10A	3/8"	133	75	139	64	12.5
ASR50-15S3	15A	1/2"	133	75	142	72	15
ASR50-20S3	20A	3/4"	133	75	148	80	20
ASR65-25S3	25A	1"	154	89	172	85	25
ASR65-32S3	32A	1-1/4"	154	89	177	105	32
ASR80-40S3	40A	1-1/2"	220	101	206	113	38
ASR80-50S3	50A	2"	220	101	221	132	50

FLANGED BALL VALVE - DOUBLE ACTING



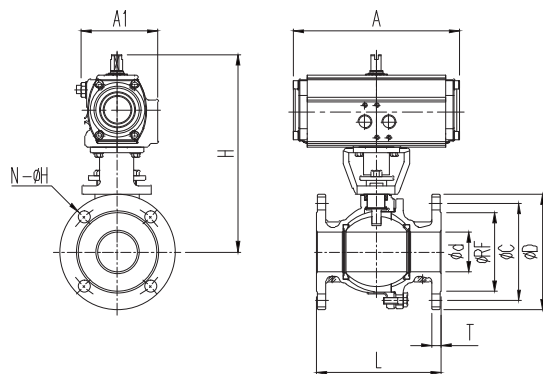
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

Specification

• This is subject to change.

Valve Size	15A(1/2")-250A(10")		
Actuator Model	AD50-AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	-20°C ~ 150°C		
Rating	JIS 10K (20K) (40K)	ANSI 150# (300#) (600#)	
Body Material	SCS13 (SCS14,SCPH2)/Body	SCS13 (SCS14)/Ball	PTFE (RTFE, PEEK, METAL)/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle		



Dimension

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K RF)					
	mm	inch					T	Φd	ΦRF	ΦC	ΦD	N-ΦH
AD50-15F	15A	1/2"	162	75	188	108	12	15	51	70	95	4-15
AD50-20F	20A	3/4"	162	75	191	117	14	20	56	75	100	4-15
AD50-25F	25A	1"	162	75	200	127	14	25	67	90	125	4-19
AD65-32F	32A	1-1/4"	202	89	220	140	16	32	76	100	135	4-19
AD65-40F	40A	1-1/2"	202	89	242	165	16	40	81	105	140	4-19
AD65-50F	50A	2"	202	89	249	178	16	50	96	120	155	4-19
AD80-65F	65A	2-1/2"	253	101	279	190	18	65	116	140	175	4-19
AD80-80F	80A	3"	253	101	319	203	18	80	126	150	185	8-19
AD100-100F	100A	4"	311	129	357	229	18	100	151	175	210	8-19
AD125-125F	125A	5"	390	151	415	356	20	125	182	210	250	8-23
AD140-150F	150A	6"	431	164	480	394	22	150	212	240	280	8-23
AD160-200F	200A	8"	506	189	589	457	22	200	262	290	330	12-23
AD200-250F	250A	10"	605	231	720	533	24	250	324	355	400	12-25

FLANGED BALL VALVE - SINGLE ACTING



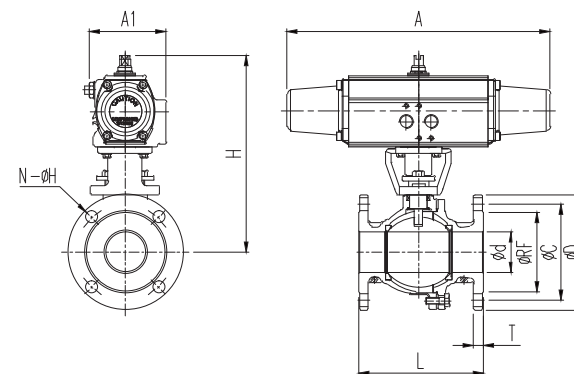
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

Specification

• This is subject to change.

Valve Size	15A(1/2")-200A(8")		
Actuator Model	AS50-AS200		
Actuator Type	Single Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	-20°C ~ 150°C		
Rating	JIS 10K (20K) (40K)	ANSI 150# (300#) (600#)	
Body Material	SCS13 (SCS14,SCPH2)/Body	SCS13 (SCS14)/Ball	PTFE (RTFE, PEEK, METAL)/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle		



Dimension

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K RF)					
	mm	inch					T	Φd	ΦRF	ΦC	ΦD	N-ΦH
AS50-15F	15A	1/2"	257	75	188	108	12	15	51	70	95	4-15
AS50-20F	20A	3/4"	257	75	191	117	14	20	56	75	100	4-15
AS65-25F	25A	1"	314	89	217	127	14	25	67	90	125	4-19
AS65-32F	32A	1-1/4"	314	89	220	140	16	32	76	100	135	4-19
AS80-40F	40A	1-1/2"	421	101	246	165	16	40	81	105	140	4-19
AS80-50F	50A	2"	421	101	268	178	16	50	96	120	155	4-19
AS80-65F	65A	2-1/2"	421	101	279	190	18	65	116	140	175	4-19
AS100-80F	80A	3"	500	129	341	203	18	80	126	150	185	8-19
AS125-100F	100A	4"	606	151	383	229	18	100	151	175	210	8-19
AS140-125F	125A	5"	682	164	433	356	20	125	182	210	250	8-23
AS160-150F	150A	6"	781	189	504	394	22	150	212	240	280	8-23
AS200-200F	200A	8"	982	231	657	457	22	200	262	290	330	12-23

3-WAY SCREWED BALL VALE - DOUBLE ACTING



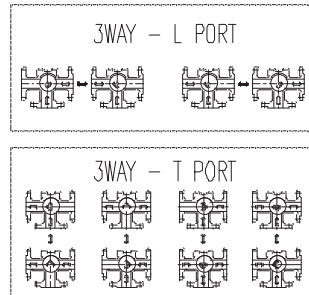
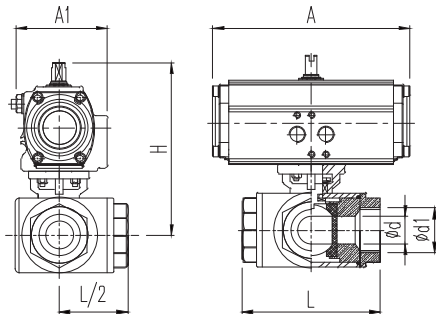
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing

Specification

• This is subject to change.

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° ± 5°							
Fluid Temperature	-20°C ~ 80°C							
Rating	1000psi							
Body Material	A351-CF8/Body		A351-CF8/Ball			PTFE / Seat		
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner							



Dimension

(mm)

Model	SIZE		A	A1	H Approx.	L	L/2	END CONNECTION (PT SCREW)	
	mm	inch						Φd	Φd1
AD40-8S3W	8A	1/4"	96	63	130	72	36	12	1/4"
AD40-10S3W	10A	3/8"	96	63	130	72	36	12	3/8"
AD40-15S3W	15A	1/2"	96	63	130	72	36	12	1/2"
AD50-20S3W	20A	3/4"	162	75	149	83	41.5	15	3/4"
AD50-25S3W	25A	1"	162	75	157	99	49.5	20	1"
AD50-32S3W	32A	1-1/4"	162	75	163	112	56	25	1-1/4"
AD65-40S3W	40A	1-1/2"	202	89	186	125	62.5	32	1-1/2"
AD65-50S3W	50A	2"	202	89	197	149	74.5	38	2"

3-WAY FLANGED BALL VALVE - DOUBLE ACTING



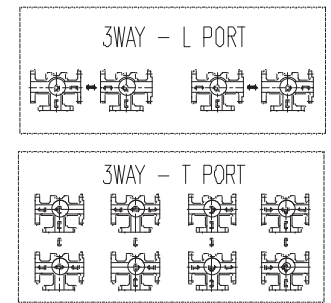
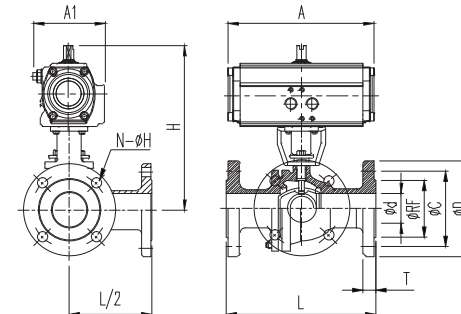
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Air conditioners, Water Filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

Specification

• This is subject to change.

Valve Size	15A(1/2")-200A(8")		
Actuator Model	AD50-AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	-20°C ~ 150°C		
Rating	JIS 10K		ANSI 150#
Body Material	SCS13(SCS14)/Body	SCS13(SCS14)/Ball	PTFE/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle		



Dimension

(mm)

Model	SIZE		A	A1	H Approx.	L	L/2	END CONNECTION (JIS 10K RF)					
	mm	inch						T	Φd	ΦRF	ΦC	ΦD	N-ΦH
AD50-15F3W	15A	1/2"	162	75	181	190	95	12	15	52	70	95	4-15
AD50-20F3W	20A	3/4"	162	75	184	190	95	14	20	58	75	100	4-15
AD65-25F3W	25A	1"	202	89	214	200	100	14	25	70	90	125	4-19
AD65-40F3W	40A	1-1/2"	202	89	217	240	120	16	40	85	105	140	4-19
AD80-50F3W	50A	2"	253	101	261	260	130	16	50	100	120	155	4-19
AD80-65F3W	65A	2-1/2"	253	101	270	320	160	18	65	120	140	175	4-19
AD100-80F3W	80A	3"	311	129	330	360	180	18	80	130	150	185	8-19
AD125-100F3W	100A	4"	390	151	368	430	215	18	100	155	175	210	8-19
AD140-125F3W	125A	5"	431	164	450	499	249.5	20	125	185	210	250	8-23
AD160-150F3W	150A	6"	506	189	500	560	280	22	150	215	240	280	8-23
AD200-200F3W	200A	8"	605	231	643	660	330	22	200	265	290	330	12-23

BUTTERFLY VALVE - DOUBLE ACTING



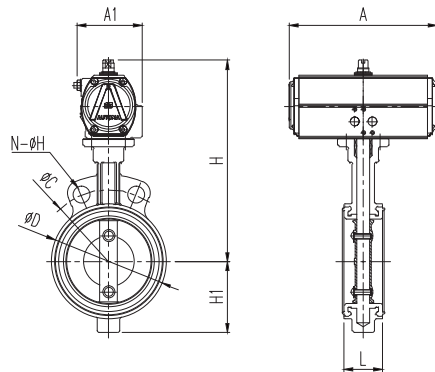
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Medical equipments, Vacuum packing
- Air ventilation systems

Specification

• This is subject to change.

Valve Size	40A(1-1/2")-600A(24")		
Actuator Model	AD50-AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	-15°C ~ 80°C		
Rating	JIS 10K		ANSI 150#
Body Material	FC (SCS13)/Body	SCS13 (SCS14)/Disc	EPDM (PTFE)/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle		



Dimension

Model	SIZE		A	A1	H Approx.	H1	L	END CONNECTION (JIS 10K WAFER)		
	mm	inch						ΦC	ΦD	N-ΦH
AD50-40BF	40A	1-1/2"	162	75	215	58	41	105	86	4-19
AD50-50BF	50A	2"	162	75	217	65	43	120	105	4-19
AD50-65BF	65A	2-1/2"	162	75	227	71	46	140	114	4-19
AD65-80BF	80A	3"	202	89	256	83	46	150	129	8-19
AD65-100BF	100A	4"	202	89	270	100	52	175	155	8-19
AD80-125BF	125A	5"	253	101	300	110	56	210	180	8-23
AD80-150BF	150A	6"	253	101	314	130	56	240	207	8-23
AD100-200BF	200A	8"	311	129	390	163	60	290	260	12-23
AD100-250BF	250A	10"	311	129	428	227	68	355	331	12-25
AD125-300BF	300A	12"	390	151	482	252	78	400	377	16-25
AD140-350BF	350A	14"	431	164	510	272	78	445	416	16-25
AD160-400BF	400A	16"	506	189	585	343	102	510	475	16-27
AD160-450BF	450A	18"	506	189	625	366	114	565	535	20-27
AD200-500BF	500A	20"	605	231	783	421	127	620	590	20-27
AD200-600BF	600A	24"	605	231	870	493	154	730	695	24-33

BUTTERFLY VALVE - SINGLE ACTING



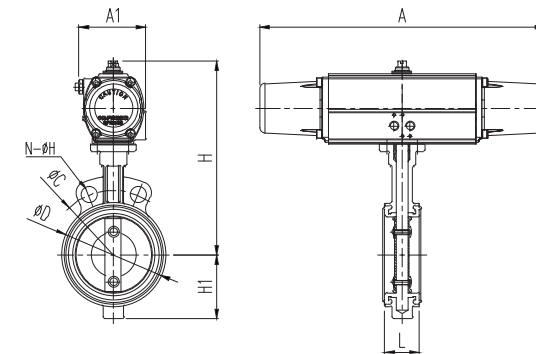
Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Sterilizers, Boilers
- Medical equipments, Vacuum packing
- Air ventilation systems

Specification

• This is subject to change.

Valve Size	40A(1-1/2")-500A(20")		
Actuator Model	AS50-AS200		
Actuator Type	Single Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	-15°C ~ 80°C		
Rating	JIS 10K		ANSI 150#
Body Material	FC (SCS13)/Body	SCS13 (SCS14)/Disc	EPDM (PTFE)/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle		



Dimension

Model	SIZE		A	A1	H Approx.	H1	L	END CONNECTION (JIS 10K WAFER)		
	mm	inch						ΦC	ΦD	N-ΦH
AS50-40BF	40A	1-1/2"	257	75	215	58	41	105	86	4-19
AS65-50BF	50A	2"	314	89	234	65	43	120	105	4-19
AS65-65BF	65A	2-1/2"	314	89	250	71	46	140	114	4-19
AS65-80BF	80A	3"	314	89	256	83	46	150	129	8-19
AS80-100BF	100A	4"	421	101	287	100	52	175	155	8-19
AS80-125BF	125A	5"	421	101	300	110	56	210	180	8-23
AS100-150BF	150A	6"	500	129	334	130	56	240	207	8-23
AS100-200BF	200A	8"	500	129	390	163	60	290	260	12-23
AS125-250BF	250A	10"	606	151	455	227	68	355	331	12-25
AS140-300BF	300A	12"	682	164	500	252	78	400	377	16-25
AS160-350BF	350A	14"	781	189	544	272	78	445	416	16-25
AS160-400BF	400A	16"	781	189	585	343	102	510	475	16-27
AS200-450BF	450A	18"	982	231	704	366	114	565	535	20-27
AS200-500BF	500A	20"	982	231	780	421	127	620	590	20-27

HIGH PERFORMANCE BUTTERFLY VALVE - DOUBLE ACTING

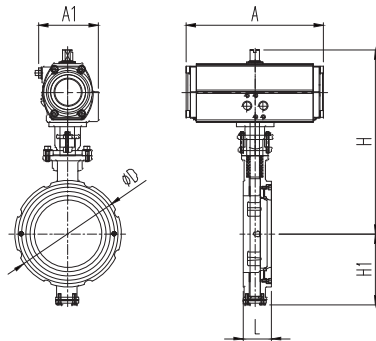


Application

- Steam Header
- Textile Machine
- Gas and Steam Line
- Water Line

Specification

Valve Size	15A(1-1/2")~150A(18")					
Actuator Type	Double Acting		Single acting			
Actuator Model	AD50 ~ AD160		AS50 ~ AS200			
Operating Media	Compressed Dry Air					
Operating Pressure	4 ~ 7kg/cm ²		4.5 ~ 7kg/cm ²			
Fluid Temperature	PTFE (-20℃ ~ 160℃)	RTFE (-20℃ ~ 180℃)	MTFE (-30℃ ~ 195℃)	SS316 (-50℃ ~ 300℃)		
Rating	JIS 10K / 20K		ANSI 150# / 300#			
Body Material	FCD450, SCPH2, SCS13, SCS14					
Disc Material	SCS13, SCS14					
Seat Material	MTFE, PTFE, RTFE, SS316					
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle					



Dimension

END CONNECTION JIS 10K WAFER (mm)

Model	SIZE		A	A1	H Approx.	H1	L	ØD
	mm	inch						
AD50-40HBF	40A	1-1/2"	162	75	254	73	43	86
AD50-50HBF	50A	2"	162	75	261	81	44	100
AD65-65HBF	65A	2-1/2"	202	89	289	83	46	123
AD65-80HBF	80A	3"	202	89	303	87	46	132
AD65-100HBF	100A	4"	202	89	310	111	52	157
AD80-125HBF	125A	5"	253	101	369	121	57	185
AD80-150HBF	150A	6"	253	101	390	145	62	220
AD100-200HBF	200A	8"	311	129	467	180	83	277
AD125-250HBF	250A	10"	390	151	531	220	87	337
AD125-300HBF	300A	12"	390	151	579	279	98	380
AD140-350HBF	350A	14"	431	164	625	309	100	410
AD160-400HBF	400A	16"	506	189	680	340	115	475
AD160-450HBF	450A	18"	506	189	720	370	115	534

Dimension will be vary according to it's body material

V-NOTCH SEGMENTAL BALL VALVE (Fire Safety Design)

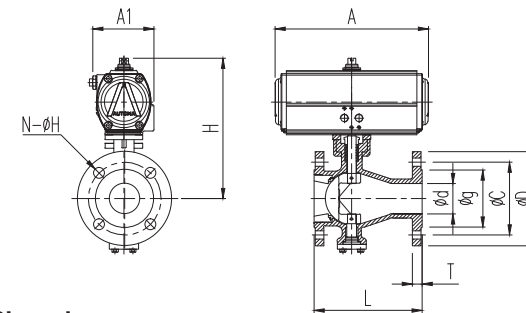


Application

- Fiber and Slurry Service
- Pulp and Paper Industry
- Steel Industry

Specification

Valve Size	15A(1/2") - 400A(16")	
Disc Form	Segmental ball disc with V-notch cut	
Characteristics	Inherent characteristic	
Body Rating	JIS 10K - 63K	ANSI 150# - 1500#
End Connection	RF(Flanged Type), Wafer(Flangeless Type), Butt Welding	
Body Material	SCPH2 (WCB), SCS13(CF8), SCS14(CF8M), SCS16(CF3M) and other alloy steels	
Seat Material	Soft Seat(PTFE, RTFE), Metal Seat(SUS316), Stellite Metal Seat	
Leakage Class	ANSI CLASS VI (Soft Seat), ANSI CLASS IV (Metal Seat)	
Bonnet Type	Plain, Extension, Long Extension(Cryogenic)	
Fluid Temp. Range	-196°C ~ 600°C	
Actuator Type	Single Acting / Double Acting Cylinder, Electric Motor	
Face To Face	ASME B16.34, API 6D	
Testing	API 598, MSS SP-61, BS 6755	



• Cv Table

Size	Rated Cv	Size	Rated Cv
1/2" (15A)	7.5	4" (100A)	480
3/4" (20A)	17	5" (125A)	750
1" (25A)	30	6" (150A)	1080
1-1/2" (40A)	68	8" (200A)	1920
2" (50A)	120	10" (250A)	3000
2-1/2" (65A)	188	12" (300A)	4320
3" (80A)	270		

Dimension

(mm)

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K RF)					
	mm	inch					T	Ød	Øg	ØC	ØD	N-ØH
AD50-15VF	15A	1/2"	162	75	199	108	12	15	51	70	95	4-15
AD50-20VF	20A	3/4"	162	75	221	117	14	20	56	75	100	4-15
AD65-25VF	25A	1"	202	89	221	127	14	25	67	90	125	4-19
AD65-40VF	40A	1-1/2"	202	89	229	165	16	40	81	105	140	4-19
AD80-50VF	50A	2"	253	101	255	178	16	50	96	120	155	4-19
AD80-65VF	65A	2-1/2"	253	101	263	190	18	65	116	140	175	4-19
AD100-80VF	80A	3"	311	126	308	203	18	80	126	150	185	8-19
AD100-100VF	100A	4"	311	126	324	229	18	100	151	175	210	8-19
AD125-125VF	125A	5"	390	151	383	356	20	125	182	210	250	8-23
AD140-150VF	150A	6"	431	164	478	394	22	150	212	240	280	8-23
AD160-200VF	200A	8"	506	189	517	457	22	200	262	290	330	12-23
AD200-250VF	250A	10"	605	231	584	533	24	250	324	355	400	12-25
AD250-300VF	300A	12"	755	301	660	610	24	300	368	400	445	16-25

PLASTIC BALL VALVE - DOUBLE ACTING



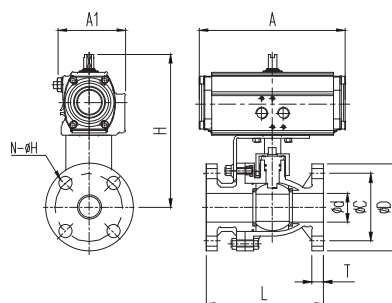
Application

- Chemical Industry
- Sea Water Line
- Ultra Pure Water Line

Specification

• This is subject to change.

Valve Size	15A(1/2")-150A(6")	
Actuator Model	AD50-AD125	
Actuator Type	Double Acting	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Rotating Angle	90° ±5°	
Fluid Temperature	-10°C ~ 90°C	
Rating	JIS 10K	ANSI 150#
Body Material	PP, C-PVPC, PVDF	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner	



Dimension

(mm)

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K FF)				
	mm	inch					T	Φd	ΦC	ΦD	N-ΦH
AD50-15F	15A	1/2"	162	75	168	145	14	15	70	95	4-15
AD50-20F	20A	3/4"	162	75	177	150	15	20	75	100	4-15
AD50-25F	25A	1"	162	75	190	170	15	25	90	125	4-19
AD65-30F	30A	1-1/4"	202	89	217	175	16	30	100	135	4-19
AD65-40F	40A	1-1/2"	202	89	217	190	18	40	105	140	4-19
AD65-50F	50A	2"	202	89	233	210	19	50	120	155	4-19
AD80-65F	65A	2-1/2"	253	101	301	260	20	65	140	175	4-19
AD80-80F	80A	3"	253	101	301	265	20	75	150	185	8-19
AD100-100F	100A	4"	311	129	337	300	22	100	175	210	8-19
AD125-125F	125A	5"	390	151	408	360	24	125	210	250	8-23
AD140-150F	150A	6"	431	164	451	360	24	150	240	280	8-23

PLASTIC BUTTERFLY VALVE - DOUBLE ACTING



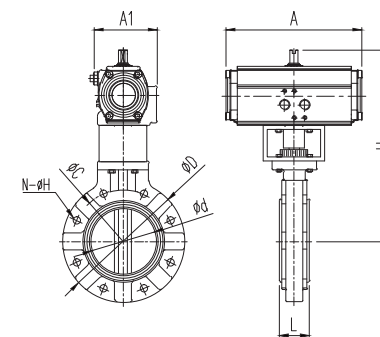
Application

- Chemical Industry
- Sea Water Line
- Ultra Pure Water Line

Specification

• This is subject to change.

Valve Size	50A(2")-400A(16")	
Actuator Model	AD50-AD160	
Actuator Type	Double Acting	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Rotating Angle	90° ±5°	
Fluid Temperature	-10°C ~ 90°C	
Rating	JIS 10K	ANSI 150#
Body Material	PP, C-PVC, PVDF	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner	



Dimension

(mm)

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K WAFER)				
	mm	inch					Φd	ΦD	ΦC	N-ΦH	
AD50-50BF	50A	2"	162	75	284	42	59	165	120	4-19	
AD50-65BF	65A	2-1/2"	162	75	298	46	70	185	140	4-19	
AD65-80BF	80A	3"	202	89	338	46	79	200	150	8-19	
AD65-100BF	100A	4"	202	89	363	56	103	229	175	8-19	
AD80-125BF	125A	5"	253	101	411	66	130	254	210	8-23	
AD80-150BF	150A	6"	253	101	438	73	151	285	240	8-23	
AD100-200BF	200A	8"	311	129	558	94	203	340	290	12-23	
AD100-250BF	250A	10"	311	129	660	111	255	406	355	12-25	
AD125-300BF	300A	12"	390	151	747	131	311	484	400	16-25	
AD140-350BF	350A	14"	431	164	771	134	348	520	445	16-25	
AD160-400BF	400A	16"	506	189	932	174	398	600	510	16-27	

SANITARY BALL VALVE - DOUBLE ACTING

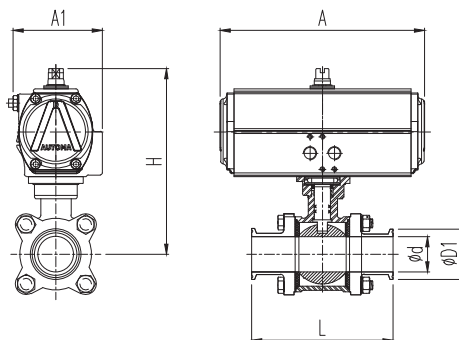


Application

- Food
- Beverage
- Chemical Industry
- Pharmaceutical Industry
- Semiconductor Industry

Specification

Valve Size	0.5S(1/2")	0.75S(3/4")	1.0S(1")	1.5S(1-1/2")	2.0S(2")	2.5S(2-1/2")	3.0S(3")	4.0S(4")
Actuator Model	AD40		AD50	AD65		AD80		AD100
Actuator Type	Double Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4 ~ 7kg/cm ²							
Rotating Angle	90° ±5°							
Fluid Temperature	-40°C ~ 180°C							
Rating	1000psi							
Body Material	A351-CF8M/Body			A351-CF8M/Ball			PTFE/Seat	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner							



Dimension

• END CONNECTION : CLAMP (mm)

Model	Size		A	A1	H Approx.	L	Φd	ΦD1
	mm	Inch						
AD40-0.5S	15A	1/2"	96	63	122	89	9.5	25.4
AD40-0.75S	20A	3/4"	96	63	132	101	15.9	25.4
AD50-1.0S	25A	1"	162	75	158	114	22.2	50.5
AD65-1.5S	40A	1-1/2"	202	89	196	140	35	50.5
AD65-2.0S	50A	2"	202	89	204	156	47.6	64
AD80-2.5S	65A	2-1/2"	253	101	246	197	60.3	77.5
AD80-3.0S	80A	3"	253	101	254	229	73	91
AD100-4.0S	100A	4"	311	129	300	241	97.4	119

FRP BALL VALVE - DOUBLE ACTING

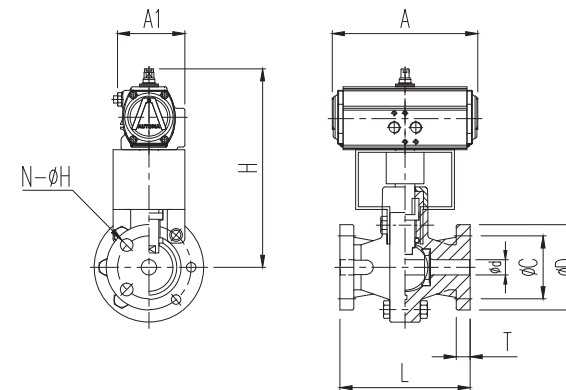


Application

- Water Supply Facilities
- Waste Water Plant
- Sewage Treatment Plant
- Chemical Industry
- Sea Water Line

Specification

Valve Size	15A(1/2")-300A(12")		
Actuator Model	AD50-AD250		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	-29°C ~ 150°C		
Rating	JIS 10K / ANSI 150#		
Body Material	FRP/Body	FRP/Ball	PTFE/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner		



Dimension

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K FF)				
	mm	inch					T	Φd	ΦC	ΦD	N-ΦH
AD50-15F	15A	1/2"	162	75	246	145	19	15	70	95	4-15
AD50-20F	20A	3/4"	162	75	246	150	20	20	75	100	4-15
AD50-25F	25A	1"	162	75	246	170	23	25	90	125	4-19
AD65-40F	40A	1-1/2"	202	89	307	190	23	40	105	140	4-19
AD65-50F	50A	2"	202	89	307	210	23	50	120	155	4-19
AD80-65F	65A	2-1/2"	253	101	326	260	26	65	140	175	4-19
AD80-80F	80A	3"	253	101	346	268	31	80	150	185	8-19
AD100-100F	100A	4"	311	126	403	300	30	100	175	210	8-19
AD125-125F	125A	5"	390	151	464	360	30	125	210	250	8-23
AD140-150F	150A	6"	431	164	502	360	35	150	240	280	8-23
AD160-200F	200A	8"	506	189	613	420	35	200	290	330	12-23
AD200-250F	250A	10"	605	231	736	515	38	250	355	400	12-25
AD250-300F	300A	12"	755	301	975	655	45	300	400	445	16-25

DIAPHRAGM VALVE



Double Acting

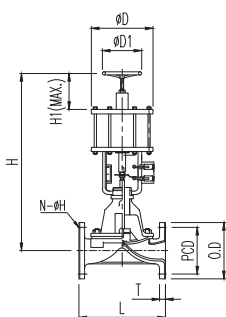
Single Acting

Application

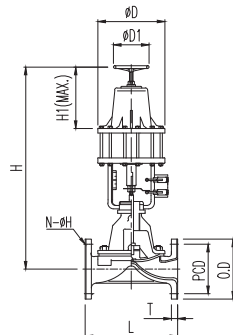
- Chemical Industry
- Pharmaceutical Industry
- Water Treatment
- Wastewater Treatment

Specification

Valve Size	15A(1/2") ~ 150A(6")	
Actuator Type	Double Acting	Single Acting
Operating Media	Compressed Dry Air	
Operating Pressure	4.5 ~ 5.5kg/cm ²	
Fluid Temperature	-20°C ~ 80°C	
Rating	JIS 10K	ANSI 150#
Body Material	FC(SCPH2, SCS13)/Body	EPDM/Diaphragm
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, Manual Handle	



Double Acting



Single Acting

Dimension

Model	SIZE		D	D1	Double	Single	Double	Single	L	END CONNECTION (ANSI 150# FF)		
	mm	inch			H(Approx.)	H1	H1	H1		O.D.	PCD	N-Ø H
ADV-15A	15A	1/2"	138	95	380	420	110	85	125	89	60.5	4-16
ADV-20A	20A	3/4"	138	95	385	430	110	85	135	98	70.0	4-16
ADV-25A	25A	1"	138	95	390	430	110	85	145	108	79.5	4-16
ADV-40A	40A	1-1/2"	192	125	440	495	130	100	165	127	98.5	4-16
ADV-50A	50A	2"	192	125	490	530	135	100	197	152	120.5	4-19
ADV-65A	65A	2-1/2"	250	155	695	785	170	125	222	178	139.5	4-19
ADV-80A	80A	3"	250	155	750	835	190	130	260	191	152.5	4-19
ADV-100A	100A	4"	265	195	805	870	205	135	313	229	190.5	8-19
ADV-125A	125A	5"	265	195	845	895	215	145	364	254	216	8-22
ADV-150A	150A	6"	330	225	885	985	220	150	414	191	152.5	8-22

(mm)

PNEUMATIC CYLINDER ON-OFF GLOBE VALVE

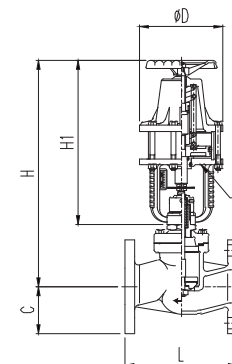


Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Dyeing Machine Temperature Control
- Middle And Low Stem Equipments Control
- Wastewater Disposal Plant

Specification

Valve Size	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")	65A(2-1/2")	80A(3")
Actuator Model	Cylinder Type					
Actuator Type	Single Acting					
Operating Media	Compressed Dry Air					
Operating Pressure	4.5 ~ 7kg/cm ²					
Manual Operation	Manual Handle(Optional)					
Fluid Temperature	-30°C ~ 220°C					
Rating	JIS 10K					
Body Material	SCS13					
Leakage Allowance	ANSI Class V					
Accessory	Solenoid valve, Limit Switch, Air filter Regulator					



Dimension

Model	Size		Φ D	H	H1	C	L	PT
	mm	Inch		Approx.				
AGV-25A	25A	1"	138	355	271	63	140	1/4"
AGV-32A	32A	1-1/4"	138	361	271	68	156	1/4"
AGV-40A	40A	1-1/2"	138	361	271	70	180	1/4"
AGV-50A	50A	2"	138	373	271	78	186	1/4"
AGV-65A	65A	2-1/2"	192	422	300	88	196	1/4"
AGV-80A	80A	3"	192	422	300	93	250	1/4"

END CONNECTION : JIS 10K FF (mm)

TANK BOTTOM BALL VALVE - DOUBLE ACTING

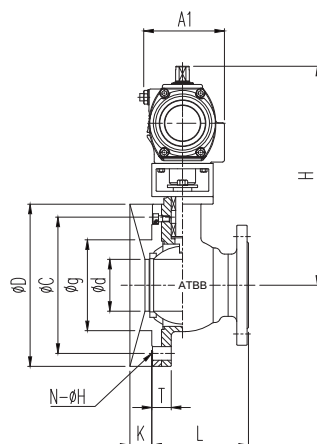


Application

- Application For Tank Draining
- Fit For Tank Flange

Specification

Valve Size	25A(2")-150A(6")		
Actuator Model	ATBB - Series		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Fluid Temperature	-10°C ~ 110°C		
Rating	JIS 10K	ANSI 150#	
Material	SCS13(SCS14)/Body	SCS13(SCS14)/Ball	PTFE/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, Speed Controller, E/P Positioner, Manual Handle		



Dimension

Model	A1	H	L	K	TANK PAD CONNECTION (MAKER STANDARD)					
		Approx.			T	Φd	Φg	ΦC	ΦD	N-ΦH
ATBB50-25F	75	235	93	28.5	25	25	49	105	140	4-15
ATBB65-40F	89	289	109	29	25	40	61	120	155	4-15
ATBB65-50F	89	302	124	32	28	50	77	140	175	4-15
ATBB80-65F	101	331	131	37	30	65	102	160	195	6-15
ATBB80-80F	101	351	153	45	32	80	140	210	250	6-19
ATBB100-100F	129	383	170	62.5	35	100	166	240	280	8-19
ATBB125-125F	151	450	254	62.5	43	125	192	265	305	8-19
ATBB140-150F	164	516	277	62.5	45	150	243	310	350	8-23

(mm)

TANK BOTTOM FLUSH VALVE

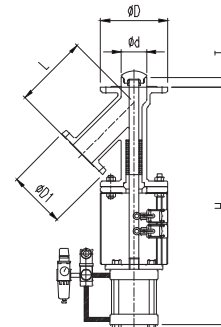


Application

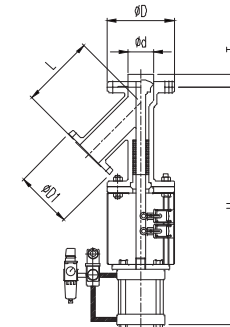
- Application For Tank Draining
- Minimize remains By Insertion nozzle Into Tank
- Customizable suitable draining speed according to customer's demand.
- There are two types ; Upper Type And Lower Type

Specification

Valve Size	25A(1")-250A(10")	
Actuator Model	ATFV - Series	
Actuator Type	Double Acting Cylinder	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Fluid Temperature	-40°C ~ 120°C	
Rating	JIS 10K	ANSI 150#
Body Material	SCS13, SCPH2	
Packing Material	TEFLON	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, Speed Controller, E/P Positioner, Manual Handle, Jacket	



UPPER TYPE



LOWER TYPE

Dimension

Class	A X B	1" X 1-1/2"	1-1/2" X 2"	2" X 2-1/2"	2" X 3"	2-1/2" X 3"	3" X 4"	4" X 5"	5" X 6"	6" X 8"	8" X 10"	10" X 12"
JIS 10K ANSI 150#	H	570	600	800	700	700	780	780	780	800	920	1150
	T	30	30	65	65	65	64	70	90	100	115	120
	L	125	140	190	190	190	215	255	290	300	350	400
	Φd	48	60	76	89	89	114	140	165	216	267	318
	ΦD	JIS 10K & ANSI 150# & For Approval										
	ΦD1	JIS 10K & ANSI 150# & For Approval										

(mm)

PNEUMATIC CYLINDER Y - TYPE VALVE

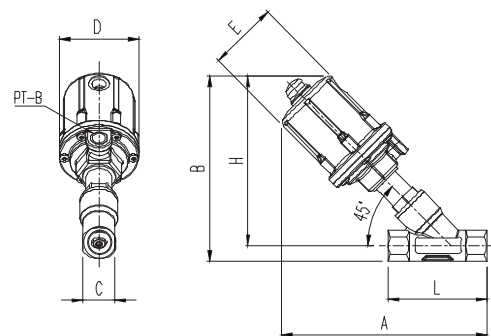


Application

- Water Distribution Pipes
- Industrial Cleaning Machines
- Dyeing Machine Temperature Control
- Middle And Low Stem Equipments Control

Specification

Valve Size	15A(1/2")-50A(2")	
Actuator Model	Cylinder Type	
Actuator Type	Single Acting	
Operating Media	Compressed Dry Air	
Operating Pressure	4.5 ~ 7kg/cm ²	
Liner Adjust	None Manual Handle	
Fluid Temperature	Valve : -10°C ~ 180°C	
End Connection	Female Thread, Soket Welding	Flange Type (Option)
Body Material	SCS14	
Leakage Allowance	ANSI Class VI	
Accessory	Limit Switch, Air filter Regulator	



Dimension

Model	SIZE		E	A	B	C	D	H	L	PT-B
	mm	inch								
AGV-25Y	25A	1/2"	φ50	174.5	158	27	φ68	84	144.5	1/4"
AGV-20Y	20A	3/4"	φ50	182	163.5	34	φ68	94	146.5	1/4"
AGV-25Y	25A	1"	φ63	211	192.5	40	φ84	104	172.5	1/4"
AGV-32Y	32A	1-1/4"	φ63	225	211.5	49	φ84	120	187	1/4"
AGV-40Y	40A	1-1/2"	φ80	252	238.5	55	φ105	130	211	1/4"
AGY-50Y	50A	2"	φ80	275	267	70	φ105	150	232	1/4"

END CONNECTION : PT SCREW (mm)

KNIFE GATE VALVE - DOUBLE ACTING

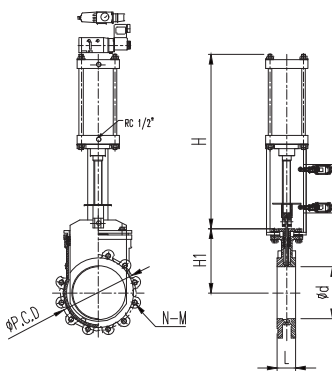


Application

- Design Features
- Less Torque Pneumatic Cylinder
- Durable Internal Thread
- Leakage - Proof Gland
- Tow Pawls For Tight Seal

Specification

Valve Size	50A(2")-500A(20")	
Actuator Model	AKGV - Series	
Actuator Type	Double Acting Cylinder	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Fluid Temperature	-40°C ~ 120°C	
Rating	JIS 10K	ANSI 150#
Body Material	SCS13, FCD45	
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator, E/P Positioner, Manual Handle	



Dimension

Model	SIZE		H1	H	L	Φd	ΦP.C.D	N-M
	mm	inch		Approx.				
AKGV-50A	50A	2"	100	409	48	48	120	4-M16
AKGV-65A	65A	2-1/2"	109	447	51	58	140	4-M16
AKGV-80A	80A	3"	102	464	51	79	150	8-M16
AKGV-100A	100A	4"	145	526	51	100	175	8-M16
AKGV-125A	125A	5"	169	571	57	125	210	8-M20
AKGV-150A	150A	6"	180	668	57	150	240	8-M20
AKGV-200A	200A	8"	219	770	70	200	290	12-M20
AKGV-250A	250A	10"	276	902	70	252	355	12-M22
AKGV-300A	300A	12"	314	1031	76	303	400	12-M22
AKGV-350A	350A	14"	340	1153	76	337	445	16-M22
AKGV-400A	400A	16"	400	1338	89	387	510	16-M24
AKGV-450A	450A	18"	413	1472	89	438	565	16-M24
AKGV-500A	500A	20"	495	1573	114	540	620	20-M24

END CONNECTION : JIS 10K LUG (mm)

2-STAGE FLANGED BALL VALVE - DOUBLE ACTING

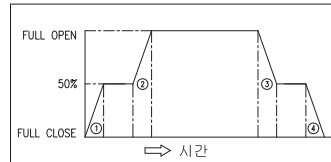
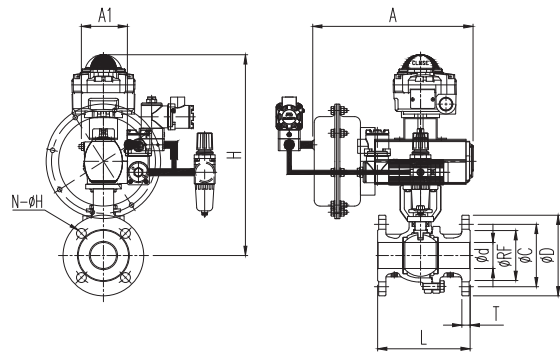


Application

- Fixed flow control
- Water hammer protection
- Food & Beverage lines
- Vacuum distribution pipes
- Oil Tank Storage system

Specification

Valve Size	15A ~ 80A		
Actuator Model	AD65, AD80 + Diaphragm		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	-10°C ~ 90°C (-10°C ~ 150°C)		
Rating	JIS 10K		ANSI 150#
Body Material	SCS13(SCS14, SCPH2)/Body	SCS13(SCS14)/Ball	PTFE(RTFE)/Seat
Accessory	Solenoid valve, Limit Switch Box, Air filter Regulator		



	Sol V/V operate		Air direction of flow		No.
	Sol-1	Sol-2	Sol-1	Sol-2	
1 Step	ON	ON	→	→	1
Full Open	OFF	ON	→	→	2
1 Step	ON	ON	→	→	3
Full Close	ON	OFF	→	→	4

Dimension

Model	SIZE		A	A1	H Approx.	L	END CONNECTION (JIS 10K RF)					
	mm	inch					T	Φd	ΦRF	ΦC	ΦD	N-ΦH
AD65-15F-2ST	15A	1/2"	315	89	351	108	12	15	52	70	95	4-15
AD65-20F-2ST	20A	3/4"	315	89	354	117	14	20	58	75	100	4-15
AD65-25F-2ST	25A	1"	315	89	363	127	14	25	70	90	125	4-19
AD65-32F-2ST	32A	1-1/4"	315	89	366	140	16	32	80	100	135	4-19
AD65-40F-2ST	40A	1-1/2"	315	89	388	165	16	40	85	105	140	4-19
AD65-50F-2ST	50A	2"	315	89	395	178	16	50	100	120	155	4-19
AD80-65F-2ST	65A	2-1/2"	361	101	423	190	18	65	120	140	175	4-19
AD80-80F-2ST	80A	3"	361	101	465	203	18	80	130	150	185	8-19
AD100-100F-ST	100A	4"	478	137	488	229	18	100	151	175	210	8-19

(mm)

DAMPERS

Application

- Low Pressure Air and Gas Line
- High Temperature Air and Gas Line

Specification

Valve Size	80A ~ 1500A (3" ~ 60")
Body Type	Round Type, Square Type
Body Rating	Maker Standard Thickness / JIS 2K, 5K, 10K / ANSI 125#, 150#
End Connection	FF(Flanged Type)
Body Material	SS400, SUS304, SUS316 and etc.
Seat Material	Non Seat Type, Soft Seat(Teflon, Graphite), Metal Seat
Leakage Class	Under 5% of Full Opening Cv
Fluid Temp. Range	-5°C ~ 600°C
Actuator Type	Single Acting / Double Acting Cylinder, Electric Motor
Accessory	Air set, E/P positioner, Solenoid Valve, Limit Switch, Manual Handle and etc.

The Methods of Calculation To Fit Damper

1) Round Type Damper

$$T = \frac{d^3 \times \Delta P}{12 \times n} \times 10^{-9} \times 1.8 = [Kg \cdot m]$$

↳ Bearing Mounting
(None Mounting = 2.5)

2) Square type Damper

$$T = \frac{a^2 \times b \times \Delta P}{8 \times n} \times 10^{-9} \times 1.8 = [Kg \cdot m]$$

a : Height
b : Horizontal
d : Diameter
ΔP : Pressure (mmAq)
n : Blade Q'ty

