

ASAHI **AV** VALVE AND PIPING SYSTEMS

ASAHI **AV** VALVES

BUTTERFLY VALVE TYPE 57 40mm - 350mm(1½inch - 14inch)



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FEATURES



Excellent Sealing Performance

Sealing performance has been improved due to its specially designed seat "PAT pending".

Lowered Operating Torque

Required operating torque has been reduced by applying specially designed seat.

Protection for Over Tightening of Mating Flange

The valve body acts as a protector against over tightening to avoid breakage or deformation of the seat. (Please refer to sketch of below)

Spherical Design Disc

Spherical design disc provides superior durability and improved Cv value.

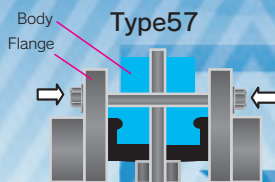
Stem Retainer

Stem retainer allows field automation or accessories preventing the stem from being removed.

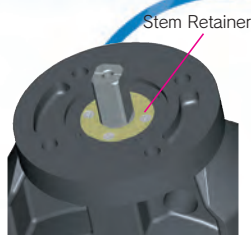
Plastic Gear Box

Corrosion resistant plastic gear box provides a broader range of applications.

Wetted Part Lubricants Free (SPECIAL)



Body contacts flanges to protect the seat from deformation and to avoid increased operating torque.



Plastic Gear Box Housing

Superior corrosion resistance allows applications such as severe chemicals and sea waters.

Highly Visible Position Indicator

Highly visible from a distance.

NAMUR Mounting Dimension

NAMUR standard is applied on the gear box housing.

Stainless Steel Trim and Hardware

Plastic Hand Wheel

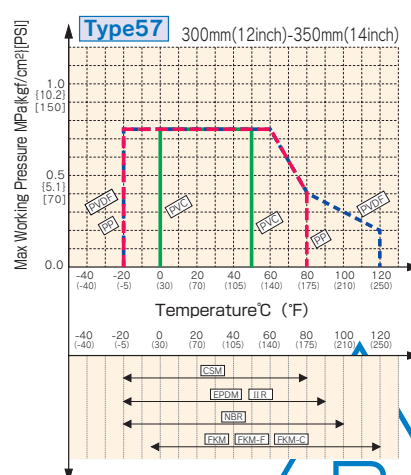
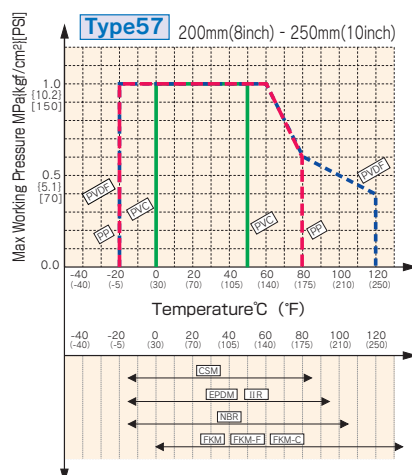
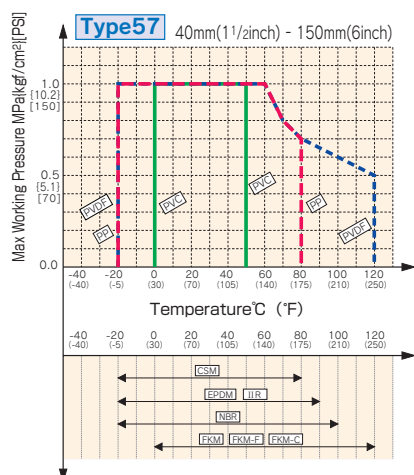
Corrosion resistance gripping design allows easy operation.

Note: Long stem type and chain drive type are available on special request.

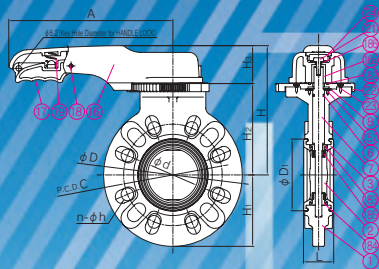
SPECIFICATIONS

Body material	Working Temperature °C (°F)	Max. Working Pressure MPa[kgf/cm²][PSI]	
		40mm-250mm (1½inch~10inch)	300mm•350mm (12inch•14inch)
Polyvinyl Chloride (PVC)	0 - 50 (30 - 120)	1.0 {10.2} [150]	0.75 {7.7} [110]
Polypropylene (PP)	-20 - 80 (20 - 175)	1.0 {10.2} [150]	0.75 {7.7} [110]
Polyvinylidene Fluoride (PVDF)	-20 - 120 (20 - 250)	1.0 {10.2} [150]	0.75 {7.7} [110]

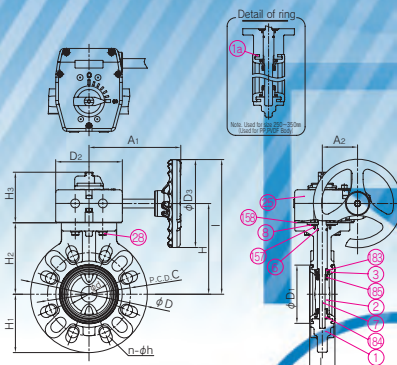
WORKING PRESSURE VS. TEMPERATURE



Lever Type ● 40mm(1½inch) — 200mm(8inch)



Gear Type ● 40mm(1½inch) — 350mm(14inch)



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/DISC-SEAT BUSH	⑪	HANDLE LEVER	1	PPG
②	DISC	1	PVC/PP	⑫	PIN	1	PPG
⑬	SEAT BUSH(A)	1	PP/PP	⑬	SPRING	1	STAINLESS STEEL(SUS 304)
⑭	SEAT BUSH(B)	1	PVDF/PVDF	⑭	BOLT (B)	1	STAINLESS STEEL(SUS 304)
③	SEAT	1	EPDM	⑮	LOCKING PLATE	1	PPG
⑥	O-RING(C)	1	FKM	⑯	SCREW (B)	4	STAINLESS STEEL(SUS 304)
⑤	O-RING(I)	4	Others	⑰	CAP(A)	1	PP
⑦	STEM	1	STAINLESS STEEL(SUS 403)	⑱	SCREW (F)	4	STAINLESS STEEL(SUS 304)
⑧	STEM HOLER (A)	1	PP	⑲	O-RING(H)	1	EPDM
⑩	HANDLE(A)	1	PP	⑳	RUBBER+WASHER	1	STAINLESS STEEL304 + EPDM
⑪	HANDLE INSERTED METAL	1	STAINLESS STEEL(SUS 316L)				

PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/DISC-SEAT BUSH	⑧	STEM RETAINER (A)	1	PP
②	DISC	1	PVC/PP	⑨	GEAR BOX	1	PLASTIC etc.
⑬	SEAT BUSH(A)	1	PP/PP	⑩	BOLT (C)	4	STAINLESS STEEL(SUS 304)
⑭	SEAT BUSH(B)	1	PVDF/PVDF	⑪	SCREW (F)	4	STAINLESS STEEL(SUS 304)
③	SEAT	1	EPDM	⑫	GASKET (L)	1	EPDM
⑥	O-RING(C)	1	FKM	⑬	RING	2	STEEL400 (Unichrome coated) PP,PVDF Body used for size 250mm-350mm
⑤	O-RING(I)	4	Others				
⑦	STEM	1	STAINLESS STEEL(SUS 403)				
			STAINLESS STEEL(SUS 316)				

DIMENSIONS TABLE

DIN																						Unit:mm
Nominal Size mm inch		d	DIN PN 10			D	D ₁	D ₂	D ₃	L	H		H ₁	H ₂		H ₃		I	A	A ₁	A ₂	Number of handle wheel rotation
			C	n	h						LEVER	GEAR		LEVER	GEAR	LEVER	GEAR					
40	1½	45	110	4	18	150	71	122	160	39	156	130	75	100	95	56	92	210	220	167	64	9.5
50	2	56	125	4	18	165	81	122	160	42	166	140	83	110	105	56	92	220	220	167	64	
65	2½	69	145	4	18	185	95	122	160	46	176	150	93	120	115	56	92	230	220	167	64	
80	3	77	160	8	18	211	105	122	160	46	191	165	106	135	130	56	92	245	250	167	64	
100	4	102	180	8	18	238	134	122	160	56	206	180	119	150	145	56	92	260	250	167	64	
125	5	129	210	8	18	263	169	122	160	66	237	195	132	168	160	69	92	275	320	167	64	
150	6	150	240	8	22	285	190	122	160	71	252	210	143	183	175	69	92	290	320	167	64	
200	8	195	295	8	22	340	242	122	160	87	283	241	170	214	206	69	92	321	400	167	64	
250	10	250	350	12	22	421	302	122	160	112	—	276	211	—	241	—	92	356	—	167	64	
300	12	303	400	12	22	488	360	188	300	129	—	340	244	—	298	—	108	490	—	272	99	
350	14	351	460	16	22	539	393	188	300	129	—	367	270	—	325	—	108	517	—	272	99	

ANSI																					Unit:inch	
Nominal Size		d	ANSI CLASS 150			D	D ₁	D ₂	D ₃	L	H		H ₁	H ₂		H ₃		I	A	A ₁	A ₂	Number of handle wheel rotation
inch	mm		C	n	h						LEVER	GEAR		LEVER	GEAR	LEVER	GEAR					
1½	40	1.77	3.88	4	0.62	5.91	2.80	4.80	6.30	1.54	6.14	5.12	2.95	3.94	3.74	2.20	3.62	8.27	8.66	6.57	2.52	9.5
2	50	2.20	4.75	4	0.75	6.50	3.19	4.80	6.30	1.65	6.54	5.51	3.25	4.33	4.13	2.20	3.62	8.66	8.66	6.57	2.52	
2½	65	2.72	5.50	4	0.75	7.28	3.74	4.80	6.30	1.81	6.93	5.91	3.64	4.72	4.53	2.20	3.62	9.06	8.66	6.57	2.52	
3	80	3.03	6.00	4	0.75	8.31	4.13	4.80	6.30	1.81	7.52	6.50	4.15	5.31	5.12	2.20	3.62	9.65	9.84	6.57	2.52	
4	100	4.02	7.50	8	0.75	9.37	5.28	4.80	6.30	2.20	8.11	7.09	4.69	5.91	5.71	2.20	3.62	10.24	9.84	6.57	2.52	
5	125	5.08	8.50	8	0.88	10.35	6.65	4.80	6.30	2.60	9.33	7.68	5.20	6.61	6.30	2.72	3.62	10.83	12.60	6.57	2.52	
6	150	5.91	9.50	8	0.88	11.22	7.48	4.80	6.30	2.80	9.92	8.27	5.61	7.20	6.89	2.72	3.62	11.42	12.60	6.57	2.52	
8	200	7.68	11.75	8	0.88	13.39	9.53	4.80	6.30	3.43	11.14	9.49	6.69	8.43	8.11	2.72	3.62	12.64	15.75	6.57	2.52	
10	250	9.84	14.25	12	1.00	16.57	11.89	4.80	6.30	4.41	—	10.87	8.31	—	9.49	—	3.62	14.02	—	6.57	2.52	
12	300	11.93	17.00	12	1.00	19.21	14.17	7.40	11.81	5.08	—	13.39	9.61	—	11.73	—	4.25	19.29	—	10.71	3.90	
14	350	13.82	18.75	12	1.12	21.22	15.47	7.40	11.81	5.08	—	14.45	10.63	—	12.80	—	4.25	20.35	—	10.71	3.90	

Note. The shape and appearance of the actual assembly may differ slightly in nominal size as compared with this drawing.



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