

ASAHI VALVE AND PIPING SYSTEMS

ASAHI AV VALVES

SWING CHECK VALVE 15mm - 200mm($1/2$ inch - 8inch)



SWING CHECK VALVE 15mm - 200mm(1/2inch - 8inch)



15mm(1/2inch), 20mm(3/4inch)



25mm(1inch) - 200mm(8inch)

FEATURES

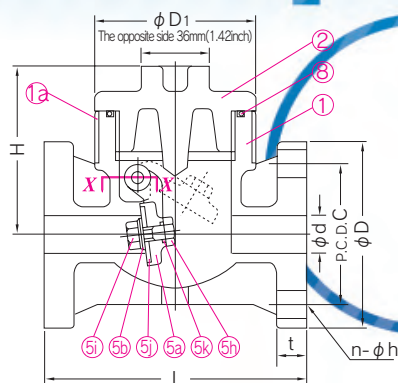
- The SWING CHECK VALVE prevents backflow, thus protecting equipment, such as a pump.
- Being of a swing arm type, the valve gives little resistance to flow.
- The SWING CHECK VALVE is highly resistant to corrosive chemicals, acid and alkaline, because of its plastic construction.
- To maintain the SWING CHECK VALVE, only the bonnet lid has to be removed, without taking the body out of pipeline.

MATERIAL AND WORKING TEMPERATURE RANGES

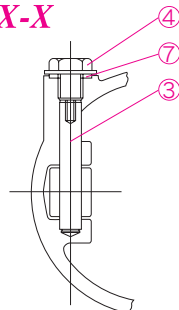
Body material	Working Temperature °C (°F)	Max. Working Pressure (at R.T.) MPa[kgf/cm ²][PSI]		
		15(1/2inch) - 80(3inch)	100(4inch) - 150(6inch)	200(8inch)
HI-PVC	0 - 50 (30 - 120)	1.0 {10.2} [150]	0.7 {7.1} [100]	0.5 {5.1} [70]
PP	-20 - 80 (-5 - 175)	1.0 {10.2} [150]	0.7 {7.1} [100]	0.5 {5.1} [70]
PVDF	-20 - 100 (-5 - 210)	1.0 {10.2} [150]	0.7 {7.1} [100]	0.5 {5.1} [70]

PARTS & MATERIALS O-ring Type

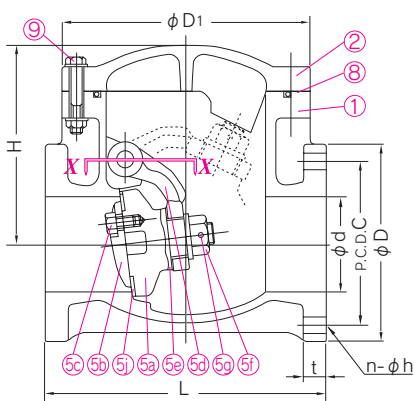
● 15mm(1/2inch)・20mm(3/4inch)



X-X



● 25mm(1inch) - 200mm(8inch)



● PP

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	PP	
②	BONNET	1	PP	
③	SHAFT	1	PP	
④	PLUG	1	PP	
⑤a	DISC	1	PVDF	
⑤b	SEAT HOLDER	1	PP	
⑤c	BOLT(A)	—	PP	Used for Size 25~200mm
⑤d	ARM	1	PP	Used for Size 25~200mm
⑤e	WASHER	1	PP	Used for Size 25~200mm
⑤f	NUT(A)	1	PVDF	Used for Size 25~200mm
⑤g	PIN	1	PVDF	In Case Material is PVDF, Used for Size 65~200mm
⑤h	BOLT(B)	1	PP	Used for Size 15,20mm
⑤i	NUT(B)	1	PP	Used for Size 15,20mm
⑤j	SEAT	1	GASKET, SEAT, O-RING(A)/O-RING(B)	
⑤k	O-RING(A)	1	EPDM/EPDM Others/Others	Used for Size 15,20mm
⑦	GASKET(B)	1	PTFE/FKM-F	
⑧	O-RING(B)	1	PTFE/FKM-C	
⑨	BOLT・NUT	—	STAINLESS STEEL(SUS304)	Used for Size 25~200mm
⑩a	BODY RING	—	STAINLESS STEEL(SUS304)	Used for Size 15,20mm

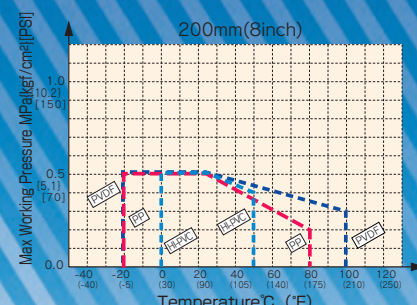
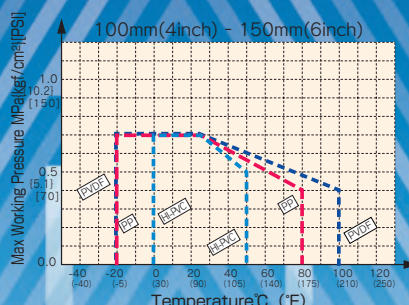
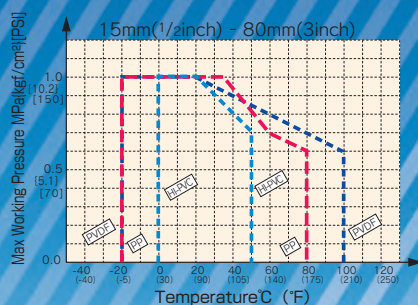
Note : 1) ⑩a Body-ring is available for PP Body 15mm(1/2inch)・20mm(3/4inch).

● HI-PVC, PVDF

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	HI-PVC, PVDF	
②	BONNET	1	HI-PVC, PVDF	
③	SHAFT	1	HI-PVC, PVDF	
④	PLUG	1	HI-PVC, PVDF	
⑤a	DISC	1	HI-PVC, PVDF	
⑤b	SEAT HOLDER	1	HI-PVC, PVDF	
⑤c	BOLT(A)	—	HI-PVC, PVDF	Used for Size 25~200mm
⑤d	ARM	1	HI-PVC, PVDF	Used for Size 25~200mm
⑤e	WASHER	1	HI-PVC, PVDF	Used for Size 25~200mm
⑤f	NUT(A)	1	HI-PVC, PVDF	Used for Size 25~200mm
⑤g	PIN	1	HI-PVC, PVDF	In Case Material is PVDF, Used for Size 65~200mm
⑤h	BOLT(B)	1	HI-PVC, PVDF	Used for Size 15,20mm
⑤i	NUT(B)	1	HI-PVC, PVDF	Used for Size 15,20mm
⑤j	SEAT	1	GASKET, SEAT, O-RING(A)/O-RING(B)	
⑤k	O-RING(A)	1	EPDM/EPDM Others/Others	Used for Size 15,20mm
⑦	GASKET(B)	1	PTFE/PFA ※	※FKM Covered at PFA
⑧	O-RING(B)	1	PTFE/FKM-F	
⑨	BOLT・NUT	—	STAINLESS STEEL(SUS304)	Used for Size 25~200mm

WORKING PRESSURE VS. TEMPERATURE

SWING CHECK VALVE O-ring Type



DIMENSIONS TABLE

DIN										Unit:mm		
Nominal Size		d	DIN PN10				D ₁	L	t			H
mm	inch		D	C	n	h			HI-PVC	PP	PVDF	
15	1/2	20	95	65	4	14	86	140	15	15	15	87
20	3/4	20	105	75	4	14	86	140	15	15	15	87
25	1	25	115	85	4	14	130	160	16	16	16	117
32	1 1/4	40	140	100	4	18	145	180	18	17	18	135
40	1 1/2	40	150	110	4	18	145	180	18	17	18	135
50	2	50	165	125	4	18	180	200	20	20	21	161
65	2 1/2	65	185	145	4	18	200	240	22	22	23	165
80	3	80	200	160	8	18	205	260	22	22	23	168
100	4	100	220	180	8	18	265	300	24	24	26	210
125	5	125	250	210	8	18	330	350	24	25	26	245
150	6	150	285	240	8	22	370	400	25	26	27	280
200	8	200	340	295	8	22	425	500	30	31	33	333

ANSI										Unit:inch		
Nominal Size		d	ANSI CLASS 150				D ₁	L	t			H
inch	mm		D	C	n	h			HI-PVC	PP	PVDF	
1/2	15	0.79	3.50	2.38	4	0.62	3.39	5.51	0.59	0.59	0.59	3.43
3/4	20	0.79	3.88	2.75	4	0.62	3.39	5.51	0.59	0.59	0.59	3.43
1	25	0.98	4.25	3.12	4	0.62	5.12	6.30	0.63	0.63	0.63	4.61
1 1/4	32	—	—	—	—	—	—	—	—	—	—	—
1 1/2	40	1.57	5.00	3.88	4	0.62	5.71	7.09	0.71	0.67	0.71	5.32
2	50	1.97	6.00	4.75	4	0.75	7.09	7.87	0.79	0.79	0.83	6.34
2 1/2	65	2.56	7.00	5.50	4	0.75	7.87	9.45	0.87	0.87	0.91	6.50
3	80	3.15	7.50	6.00	4	0.75	8.07	10.24	0.87	0.87	0.91	6.62
4	100	3.94	9.00	7.50	8	0.75	10.43	11.81	0.94	0.94	1.02	8.27
5	125	4.92	10.00	8.50	8	0.88	12.99	13.78	0.94	0.98	1.02	9.65
6	150	5.91	11.00	9.50	8	0.88	14.57	15.75	0.98	1.02	1.06	11.03
8	200	7.87	13.50	11.75	8	0.88	16.73	19.69	1.18	1.22	1.30	13.11

* Important: The swing check valve can be used in both vertical and horizontal pipelines. However, when installing the valve, be sure to make the direction of the arrow embossed on the valve agree with that of flow.

* Swing check valves 15mm(1/2inch) and 30mm(1 1/4inch) mm in nominal size are made out of those in 20mm(3/4inch) and 40mm(1 1/2inch) in nominal size, respectively.

Note : For pressure limits by fluid temperature ranges and materials, see "WORKING PRESSURE VS. TEMPERATURE" in this catalog.



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