

Asahi AV Products

Make Your Systems More Sophisticated.



DIAPHRAGM VALVE
TYPE14
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TRUE UNION
DIAPHRAGM VALVE TYPE14
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DIAPHRAGM VALVE
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LAB COCK
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BUTTERFLY VALVE
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SWING CHECK VALVE
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BALL CHECK AND
BALL FOOT VALVE
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Y-SEDIMENT STRAINER
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To meet your specific requirements, Asahi AV Valves are made of wide variety of materials and are available in various types and sizes.

You are surely making the best choice for your systems when selecting Asahi AV products.



**BALL VALVE
TYPE21**
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**3-WAY BALL VALVE
TYPE23**
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**3-WAY BALL VALVE
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COMPACT BALL VALVE
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**BUTTERFLY VALVE
TYPE57L(LUG STYLE)**
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**BUTTERFLY VALVE
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PDCPD BUTTERFLY VALVE
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**DIAPHRAGM VALVE TYPE 14,
PNEUMATIC ACTUATED MODEL**
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**T.U. DIAPHRAGM VALVE TYPE 14,
PNEUMATIC ACTUATED MODEL**
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AV GASKET
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BUTTERFLY VALVE TYPE 57 40mm - 350mm(1½inch - 14inch)

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.

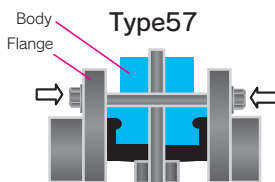
■ Stem Retainer

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

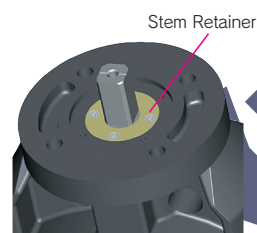
■ Plastic Gear Box

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.

● NAMUR Mounting Dimension

NAMUR standard is applied on the gear box housing.

● Highly Visible Position Indicator

Highly visible from a distance.

● Stainless Steel Trim and Hardware

● Plastic Hand Wheel

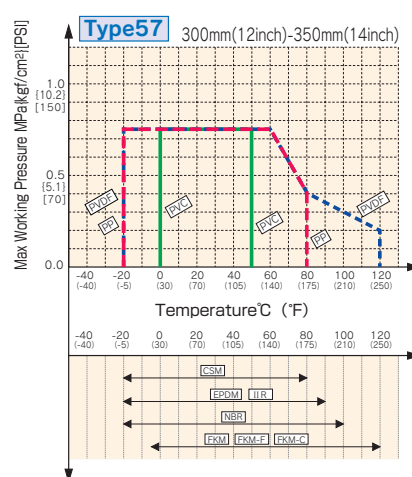
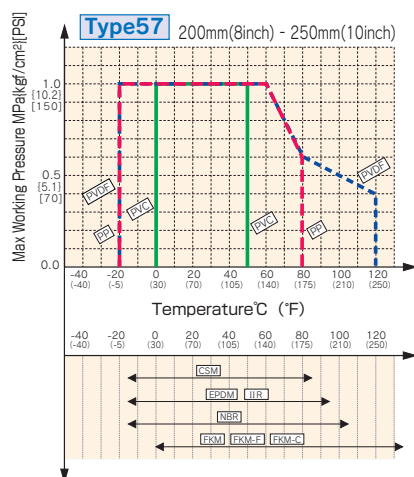
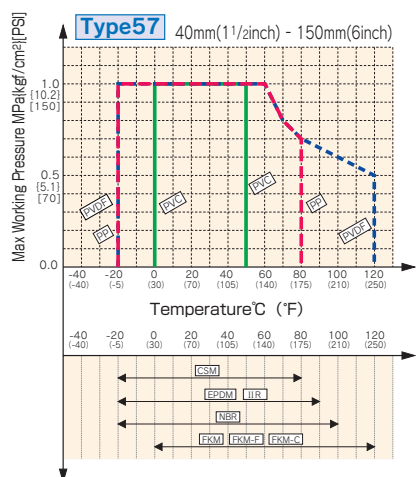
Corrosion resistance gripping design allows easy operation.

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

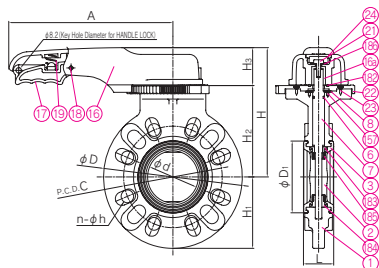
SPECIFICATIONS

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]

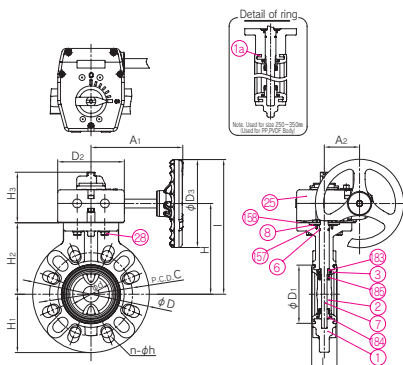
WORKING PRESSURE VS. TEMPERATURE



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		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
mm	inch		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.

BUTTERFLY VALVE TYPE 56 400mm(16inch)

FEATURES

■ Step Further to All Plastic

TYPE 56 with lever operator butterfly valve which metal parts are reduced as much as possible.

■ Easy Transformation of Operation Devices

Application of modular design on top flange provides the valve with flexible and easy change of operation types, from lever to gear and from manual to automatic and so on.

■ Excellent Handling and Safety

Application of newly innovative locking device(patent pend-ing)for lever type gives the valve opening degrees by 19 levels.

And also handle lever with locking hole provides one solution against wrong handle operation.

■ Handle Lever with Flexibility of Mounting Direction

Symmetric design on top flange offers easy change of handle lever mounting direction at working site.

■ Option

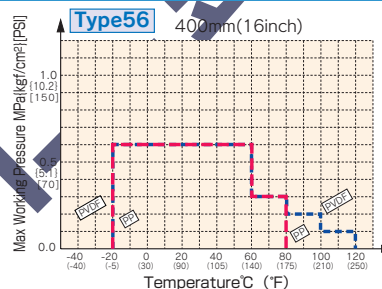
Long stem type and chain drive type are available on special request.

SPECIFICATIONS

Body material	Nominal size mm(inch)	Working Temperature °C (°F)	Max.Working Pressure (at R.T.) MPa[kgf/cm ²][PSI]
			400mm(16inch)
PP	400(16)	-20 - 80(-5 - 175)	0.6 {6.1} [87]
PVDF	400(16)	-20 - 120(-5 - 250)	0.6 {6.1} [87]

※R.T.···Room Temperature

WORKING PRESSURE VS. TEMPERATURE



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/DISC PP/PP PVDF/PVDF	⑥	O-RING(C)	1	EPDM,FKM,OTHERS
②	DISC	1		⑦	STEM	1	STAINLESS STEEL(SUS403)
③	STEM SEAT	1	EPDM,FKM,OTHERS	⑮	GEAR BOX	1	PLASTIC etc.
④	O-RING(A)	2	EPDM,FKM,OTHERS	⑯	BOLT (C)	1	STAINLESS STEEL304
⑤	O-RING(B)	2	EPDM,FKM,OTHERS	⑰	RING ¹⁾	2	STEEL(SS400)
				⑱	INSERTED METAL OF BODY ²⁾	4	COPPER ALLOY(C3604)

Note: 1) Used for PP body: with epoxy powder coat
2) Used for JIS 10K400mm(16inch)

DIMENSIONS TABLE

DIN																	Unit:mm
Nominal Size	d	DIN PN 10			D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	I	A	A ₂	Number of handle rotation
mm inch		C	n	h													
400 16	406	515	16	26	600	470	235	300	169	390	300	350	108	540	242	99.2	9.5

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 ₂	Number of handle rotation
inch mm		C	n	h													
16 400	15.98	21.25	16	1.12	23.62	18.50	9.25	11.81	6.65	15.35	11.81	13.78	4.25	21.26	9.53	3.91	9.5

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BUTTERFLY VALVE TYPE 75 450mm - 600mm(18inch - 24inch)

- 450mm(18inch) —
600mm(24inch)

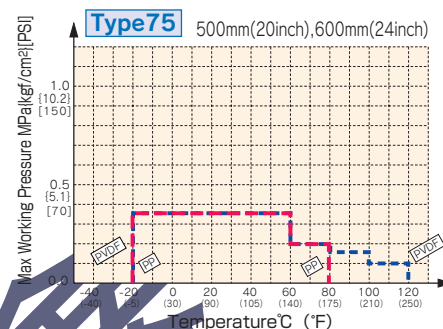
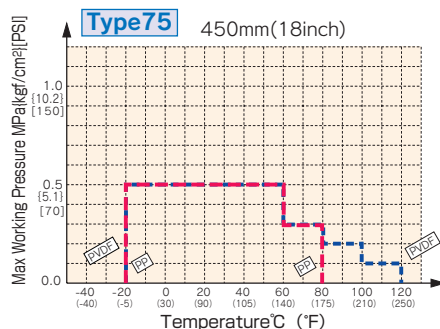


SPECIFICATIONS

Body material	Nominal size mm(inch)	Working Temperature °C (°F)	Max. Working Pressure (at R.T.) MPa[kgf/cm²][PSI]		
			450mm(18inch)	500mm(20inch)	600mm(24inch)
PP	450 - 600(18 - 24)	-20 - 80(-5 - 175)	0.5 {5.1} [73]	0.5 {5.1} [73]	0.5 {5.1} [73]
PVDF	450 - 600(18 - 24)	-20 - 120(-5 - 250)	0.35 {3.6} [51]	0.35 {3.6} [51]	0.35 {3.6} [51]

※R.T.---Room Temperature

WORKING PRESSURE VS. TEMPERATURE



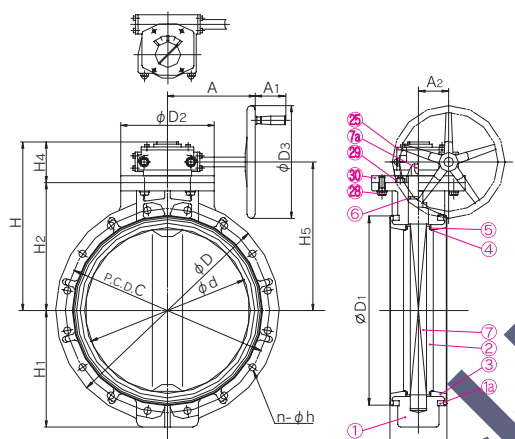
PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY / DISC PP / PP PVDF / PVDF	7a	KEY(A)	1	CARBON STEEL(S45C)
②	DISC	1		25	GEAR BOX	1	CAST ALUMINIUM ALLOY (FC250)
③	SEAT	1		28	BOLT(A)	4	STAINLESS STEEL(SUS304)
④	O-RING(A)	2	EPDM	29	BOLT(D)	4	STAINLESS STEEL(SUS304)
⑤	O-RING(B)	2	FKM	30	STAND	1	CHROMIZED STEEL(SS400)
⑥	O-RING(C)	1	others	3a	RING	2	CHROMIZED STEEL(SS400)
⑦	STEM	2	STAINLESS STEEL(SUS403)				

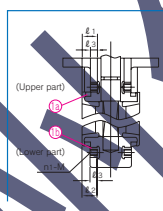
1) Used only for JIS 10K.

Option

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



DETAIL OF THREADED INSERTS



DIMENSIONS TABLE

Nominal Size mm inch	M	BOLT HOLES n	Q'TY OF INSERTED NUT			ℓ ₁	ℓ ₂	ℓ ₃
			UPPER	LOWER	TOTAL (2×n1)			
450 18	M24	16	2×2	2×2	8	43	48	24
500 20	M24	16	2×2	2×2	8	43	53	24
600 24	M30	20	2×2	2×2	8	58	58	30

DIN																	Unit:mm	
Nominal Size mm inch	d	DIN 2501 PN10			D		D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₄	H ₅	A	A ₁	A ₂
		C	n	h	PP	PVDF												
450 18	452	565	20	26	633	630	525	340	410	179	509	315	370	139	445	319	85	110
500 20	502	620	20	26	683	680	575	340	410	190	539	350	400	139	475	319	85	110
600 24	603	730	20	30	793	790	686	340	410	209	604	424	465	139	540	319	85	110

ANSI																		
Nominal Size inch mm	d	ANSI Class150			D		D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₄	H ₅	A	A ₁	A ₂
		C	n	h	PP	PVDF												
18 450	17.80	22.75	16	1.25	24.92	24.80	20.67	13.39	16.14	7.05	20.04	12.40	14.57	5.47	17.52	12.56	3.35	4.33
20 500	19.76	25.00	20	1.25	26.89	26.77	22.64	13.39	16.14	7.48	21.22	13.78	15.75	5.47	18.70	12.56	3.35	4.33
24 600	23.74	29.50	20	1.38	31.22	31.10	27.01	13.39	16.14	8.23	23.78	16.69	18.31	5.47	21.26	12.56	3.35	4.33

BUTTERFLY VALVE TYPE 57L (Lug Style)

FEATURES

●PDCPD



●PVC



■ Easy Piping Maintenance

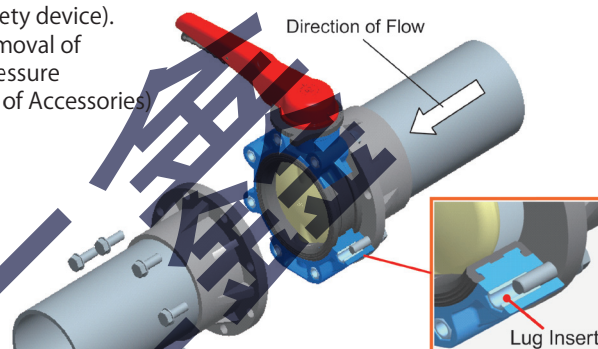
It is not necessary to remove fluid from the pipe line.

■ Strong In Pulsating Pressure

3 Times Stronger than a Major Competitor.

■ Same Features as Type57

- Protection for Over-Tightening Constant Stem Torque.
- New Designed Disc and Seat (Liner).
 - Longer Life
 - Lower Sealing Torque
 - Higher Cv Value
- Plastic Gear Box.
 - Extremely Corrosion Resistant
 - Easy Operation
- Stem Retainer (Safety device).
 - Prevention of Removal of Stem under Pressure (Safe Installation of Accessories)



SPECIFICATIONS

- DIN Standard

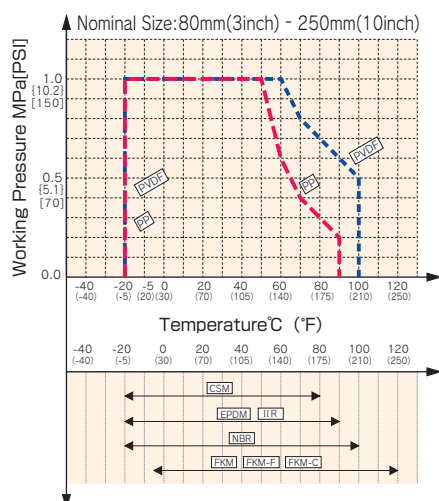
Body material	Standard	Working Temperature °C (°F)	Max. Working Pressure MPa[kgf/cm ²][PSI]
Poly diecyclo penta diene (PDCPD)	JIS, DIN	-5 - 100 (20 - 210)	80mm - 250mm (3inch - 10inch) 1.0MPa{10.2kgf/cm ² }[150PSI]

- ANSI Standard

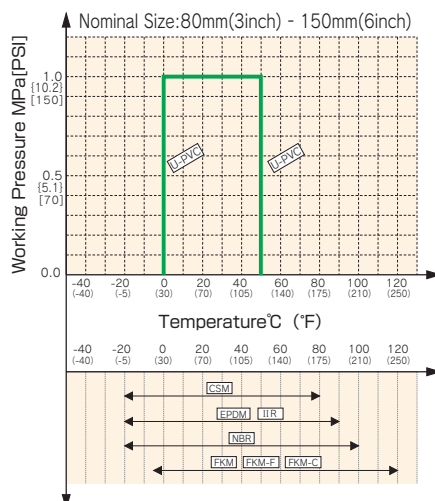
Body material	Standard	Working Temperature °C (°F)	Max. Working Pressure MPa[kgf/cm ²][PSI]
Polyvinyl Chloride (PVC)	ANSI	0 - 50 (30 - 120)	125mm - 250mm (3inch - 10inch) 1.0MPa{10.2kgf/cm ² }[150PSI]
			300mm (12inch) 0.75MPa{7.7kgf/cm ² }[110PSI]

WORKING PRESSURE VS. TEMPERATURE

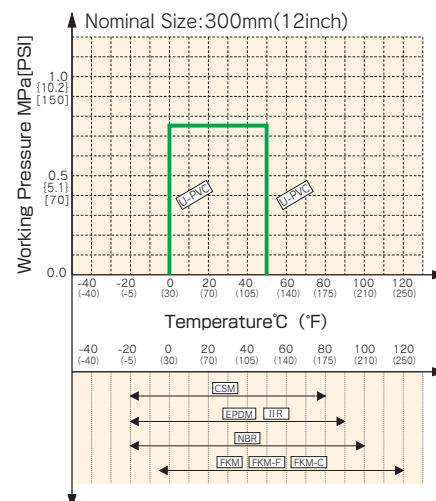
LUG-BUTTERFLY VALVE TYPE57L(WAFER)



LUG-BUTTERFLY VALVE TYPE57L(WAFER)



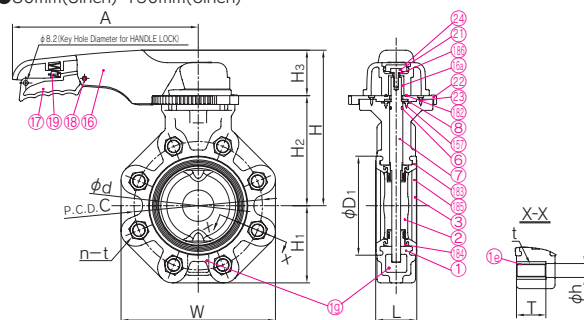
LUG-BUTTERFLY VALVE TYPE57L(WAFER)



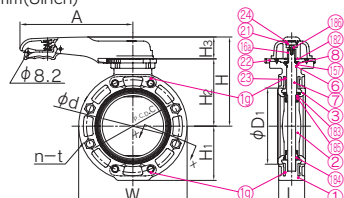
Lever Type

DIMENSION

●80mm(3inch)-150mm(6inch)



●200mm(8inch)



DIMENSIONS TABLE

Nominal Size		Unit:mm																	
mm	inch	d	DIN PN10	C	n	h	D ₁	L	H	H ₁	H ₂	H ₃	A	W	T	t			
80	3	77	160	8	18	105	46	191	94	135	56	250	193	40	M16×40 width across fat	24			
100	4	102	180	8	18	134	56	206	105	150	56	250	217	40	M16×40 width across fat	24			
125	5	129	210	8	18	169	66	237	124	168	69	320	247	50	M20×50 width across fat	30			
150	6	150	240	8	23	190	71	252	138	183	69	320	285	50	M20×50 width across fat	30			
200	8	195	295	8	23	242	87	283	173	214	69	400	345	60	M20×50 width across fat	30			

																	Unit:inch	
Nominal Size		d	ANSI 150lb			D	D ₁	L	H	H ₁	H ₂	H ₃	A	W	T	t		
mm	inch		C	n	h													
150	6	5.91	9.50	8	0.87	10.63	7.48	2.80	9.92	5.55	7.20	2.72	12.60	10.67	1.97	3/4-10 UNC		
200	8	7.68	11.75	8	0.87	12.60	9.53	3.43	11.14	6.61	8.43	2.72	15.75	12.76	2.26	3/4-10 UNC		

Note : The shape and appearance of assembly differ alittle with nominal size compared to this drawing.

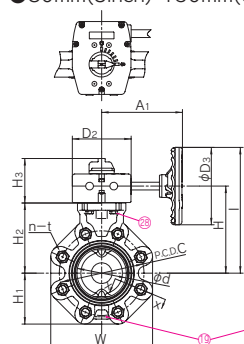
PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS	No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	PDCPD		⑰	HANDLE LEVER	1	PPG	
⑱	LUG-INSERT	8	STAINLESS STEEL(SUS304)	used for 80-150mm	⑱	PIN	1	PPG	
		4	(Antiscoring coat)	used for 200mm	⑲	SPRING	1	STAINLESS STEEL(SUS304)	
⑳	BODY-INSERT	1	STAINLESS STEEL(SUS304)	used for 125,150mm	㉑	BOLT(B)	1	STAINLESS STEEL(SUS304)	
		2	STAINLESS STEEL(SCS13)	used for 200mm	㉒	LOCKING PLATE	1	PPG	
②	DISC	1	PP,PVDF		㉓	SCREW(B)	4	STAINLESS STEEL(SUS304)	
③	SEAT	1			㉔	CAP(A)	1	PP	
⑥	O-RING(C)	1	EPDM,FKM,FKM-F,FKM-C		㉖	SCREW(F)	4	STAINLESS STEEL(SUS304)	
㉕	O-RING(I)	1			㉗	O-RING(H)	1	EPDM	
⑦	STEM	1	STAINLESS STEEL(SUS403)		㉘	SEAT BUSH(A)	1	PP,PVDF	
⑧	STEM HOLDER(A)	1	PP		㉙	SEAT BUSH(B)	1	PP,PVDF	
⑯	HANDLE(A)	1	PP		㉚	RUBBER + WASHER	1	STAINLESS STEEL(SUS304)	
㉛	HANDLE INSERTED METAL	1	STAINLESS STEEL(SUS316L)					+ EPDM	

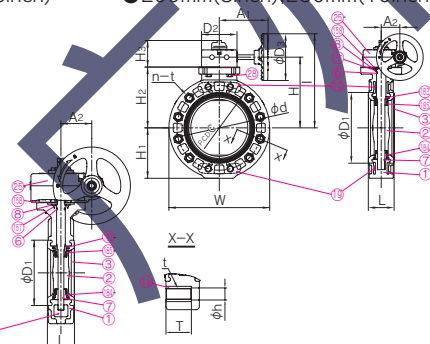
Gear Type

DIMENSION

●80mm(3inch)-150mm(6inch)



●200mm(8inch), 250mm(10inch)



DIMENSIONS TABLE

DIN																							
Nominal Size		d	DIN PN10			D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	I	A ₁	A ₂	W	T	t	Number of handle wheel rotation	GEAR BOX TYPE		
mm	inch		C	n	h																		
80	3	77	160	8	18	105	122	160	46	165	94	130	92	245	167	64	193	40	M16×40 width across fat 24	9.5	TYPE1		
100	4	102	180	8	18	134	122	160	56	180	105	145	92	260	167	64	217	40	M16×40 width across fat 24				
125	5	129	210	8	18	169	122	160	66	195	124	160	92	275	167	64	247	50	M16×50 width across fat 24				
150	6	150	240	8	23	190	122	160	71	210	138	175	92	290	167	64	285	50	M20×50 width across fat 30				
200	8	195	295	8	23	242	122	160	87	241	173	206	92	321	167	64	345	60	M20×60 width across fat 30				
250	10	250	350	12	23	302	122	160	112	276	208	241	92	356	167	64	415	70	M20×70 width across fat 30				

ANSI																							
Nominal Size		d	ANSI 150lb			D	D ₁	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	I	A ₁	A ₂	W	T	t	Number of handle wheel rotation	GEAR BOX TYPE	
mm	inch		C	n	h																		
150	6	5.91	9.50	8	0.87	10.63	7.48	4.80	6.30	2.80	8.27	5.55	6.89	3.62	11.42	6.57	2.52	10.67	1.97		3/4-10 UNC	9.5	TYPE1
200	8	7.68	11.75	8	0.87	12.60	9.53	4.80	6.30	3.43	9.49	6.61	8.11	3.62	12.64	6.57	2.52	12.76	2.26		3/4-10 UNC		
250	10	9.84	14.25	12	0.98	15.75	11.89	4.80	6.30	4.41	10.87	7.95	9.49	3.62	14.02	6.57	2.52	15.91	2.52		7/8-9 UNC		
300	12	11.93	17.01	12	0.98	18.31	14.17	7.40	11.81	5.08	13.39	9.29	11.73	4.52	19.29	9.53	3.90	18.54	2.52		7/8-9 UNC		TYPE3

NOTE. The shape and appearance of assembly differ little with nominal size compared to this drawing.

PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	PDCPD,PVC	
⑱	LUG-INSERT	8	STAINLESS STEEL(SUS304)	used for 80-150,250mm
		4	(Antiscoring coat)	used for 200mm
⑳	BODY-INSERT	1	STAINLESS STEEL(SUS304)	used for 125,150mm
		2	STAINLESS STEEL(SCS13)	used for 200,250mm
②	DISC	1	PP,PVDF	
③	SEAT	1		
⑥	O-RING(C)	1	EPDM,FKM,FKM-F,FKM-C	
㉕	O-RING(I)	1		
⑦	STEM	1	STAINLESS STEEL(SUS403)	
⑧	STEM HOLDER(A)	1	PP	
㉔	GEAR BOX	1	PLASTIC etc.	
㉑	BOLT(C)	4	STAINLESS STEEL(SUS403)	
㉖	SCREW(F)	4	STAINLESS STEEL(SUS403)	
㉗	GASKET(L)	1	EPDM	
㉘	SEAT BUSH(A)	1	PP,PVDF	
㉙	SEAT BUSH(B)	1	PP,PVDF	

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BUTTERFLY VALVE TYPE 55 50mm - 250mm(2inch - 10inch)



APPLICATIONS

Electrolytic soda, agricultural chemicals, chemicals, steel, aluminum refining exhaust fumes dischargers, desulfurizers, erosive and corrosive solution lines

FEATURES

■ Extreme Corrosion Resistance

All of the wetted parts are completely covered with PTFE, which can result in excellent performance against a highly corrosive media.

Therefore BUTTERFLY VALVE TYPE 55 is the most suitable valve for lines of highly corrosive media in factories of Soda electrolysis, Chemicals and Agricultural chemicals.

■ Improved Cv Value

Thinner disc makes the area of flow passage wider and the Cv value is improved as a result.

■ Excellent resistibility to high and low temperature.

BUTTERFLY VALVE TYPE 55 can be used continuously at the range from -20°C to 100°C (-5°F to 210°F)

■ Simple Structure for Stem Sealing

Simple structure for stem sealing offers high reliability and also allows for easy maintenance.

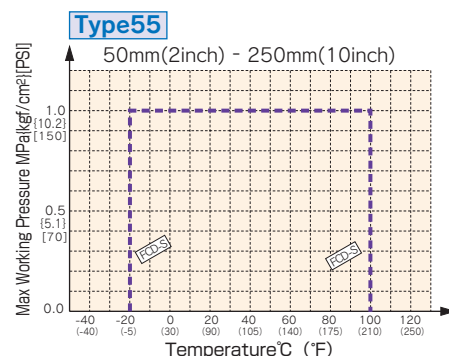
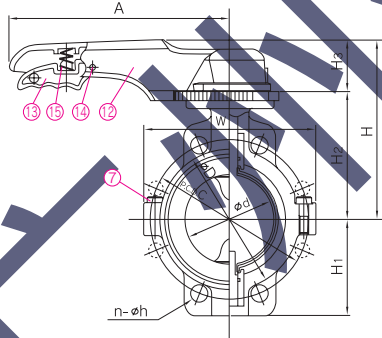
SPECIFICATIONS

Body material	DUCTILE CAST IRON (FCD-5)[with epoxy powder coat]	Nominal size mm(inch)	50(2), 80(3), 100(4), 125(5) 150(6), 200(8), 250(10)
Disc•Seat material	PTFE	Max. Working Pressure	1.0MPa{10.2kgf/cm ² }[150PSI]
		Working Temperature	-20°C - 100°C(-5° F - 210° F)

DIMENSION

WORKING PRESSURE VS. TEMPERATURE

Lever



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	FCD-5(Epoxy Powder Coat)
②	DISC	1	PTFE
②a	DISC INSERT	1	STAINLESS STEEL304
③	SEAT	1	PTFE
③a	CUSHION RUBBER	1	CR
④	STEM	1	STAINLESS STEEL304
⑤	BUSH	2	STAINLESS STEEL304
⑥	O-RING	2	EPDM
⑦	BOLT(A)	—	STAINLESS STEEL304
⑪	CAP	1	PP
⑫	HANDLE	1	PP
⑫a	INSERTED METAL OF HANDLE	1	STAINLESS STEEL304
⑬	HANDLE LEVER	1	PPG
⑭	PIN	1	PPG
⑮	SPRING	1	STAINLESS STEEL304
⑯	WASHER	1	STAINLESS STEEL304
⑰	BOLT(C)	1	STAINLESS STEEL304
⑱	LOCKING PLATE	1	PPG
⑲	SCREW	4	STAINLESS STEEL304

DIMENSIONS TABLE

DIN												Unit:mm	
Nominal Size		d	DIN PN 10			D	L	H	H ₁	H ₂	H ₃	W	A
mm	inch		C	n	h								
50	2	55	125	2(4)	18	90	44	161	61	105	56	116	220
80	3	80	160	4(8)	18	125	54	180	95	124	56	152	250
100	4	100	180	4(8)	18	154	59	196	99	140	56	174	250
125	5	125	210	4(8)	18	181	64	235	120	166	69	206	320

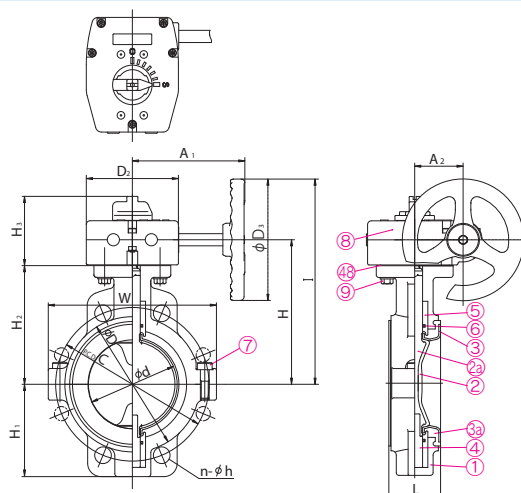
ANSI												Unit:inch	
Nominal Size		d	ANSI Class 150, ANSI Class 125			D	L	H	H ₁	H ₂	H ₃	W	A
inch	mm		C	n	h								
2	50	2.17	4.75	2 (4)	0.75	3.54	1.73	6.43	2.40	4.13	2.20	4.57	8.66
3	80	3.15	6.00	—(4)	0.75	4.92	2.13	7.09	3.74	4.88	2.20	5.98	9.84
4	100	3.94	7.50	4 (8)	0.75	6.06	2.32	7.72	3.90	5.51	2.20	6.85	9.84
5	125	4.92	8.50	4 (8)	0.88	7.13	2.52	9.25	4.72	6.54	2.72	8.11	12.60

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DIMENSION

Gear



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	※FCD-S(Epoxy Powder Coat)	⑤	BUSH	2	STAINLESS STEEL304
②	DISC	1	PTFE	⑥	O-RING	2	EPDM
②a	DISC INSERTED METAL	1	STAINLESS STEEL304	⑦	BOLT(A)	—	STAINLESS STEEL304
③	SEAT	1	PTFE	⑧	GEAR BOX	1	PLASTIC etc.
③a	SEAT CUSION	1	CR	⑨	BOLT(B)	4	STAINLESS STEEL304
④	STEM	1	STAINLESS STEEL304				

Note : FCD-S: DUCTILE CAST IRON

DIMENSIONS TABLE

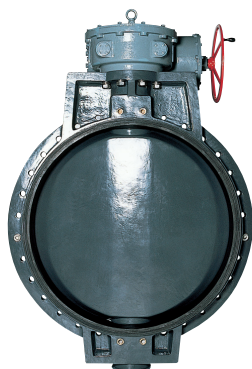
DIN																	Unit:mm	
Nominal Size mm inch	d	DIN 2501 PN10			D	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	I	W	A ₁	A ₂	Number of handle rotation	GEAR BOX MODEL No.
		C	n	h														
50 2"	55	125	2(4)	18	90	122	160	44	135	61	100	92	215	116	167	64	9.5	TYPE1
80 3	80	160	—(4)	18	125	122	160	54	154	95	119	92	234	152	167	64		
100 4	100	180	4(8)	18	154	122	160	59	170	99	135	92	250	174	167	64		
125 5	125	210	4(8)	18	181	122	160	64	193	120	158	92	273	206	167	64		
150 6	150	240	4(8)	22	211	122	160	75	210	137	175	92	290	236	167	64		
200 8	191	295	4(8)	22	265	122	160	85	240	163	205	92	320	282	167	64		
250 10	245	350	4(12)	22	325	122	160	96	275	200	240	92	355	341	167	64		

NOTE. The shape and appearance of assembly differ little with nominal size compared to this drawing.

ANSI																	Unit:mm	
Nominal Size mm inch	d	ANSI Class 150, ANSI Class 125			D	D ₂	D ₃	L	H	H ₁	H ₂	H ₃	I	W	A ₁	A ₂	Number of handle rotation	GEAR BOX MODEL No.
		C	n	h														
50 2"	2.17	4.75	2(4)	0.75	3.54	4.80	6.30	1.73	5.31	2.40	3.94	3.62	8.46	4.57	6.57	2.52	9.5	TYPE1
80 3	3.15	6.00	—(4)	0.75	4.92	4.80	6.30	2.13	6.06	3.74	4.69	3.62	9.21	5.98	6.57	2.52		
100 4	3.94	7.50	4(8)	0.75	6.06	4.80	6.30	2.32	6.69	3.90	5.31	3.62	9.84	6.85	6.57	2.52		
125 5	4.92	8.50	4(8)	0.88	7.13	4.80	6.30	2.52	7.60	4.72	6.22	3.62	10.75	8.11	6.57	2.52		
150 6	5.91	9.50	4(8)	0.88	8.31	4.80	6.30	2.95	8.27	5.39	6.89	3.62	11.42	9.29	6.57	2.52		
200 8	7.52	11.75	4(8)	0.88	10.43	4.80	6.30	3.35	9.45	6.42	8.07	3.62	12.60	11.10	6.57	2.52		
250 10	9.65	14.25	4(12)	1.00	12.80	4.80	6.30	3.78	10.83	7.87	9.45	3.62	13.98	13.43	6.57	2.52		

NOTE. The shape and appearance of assembly differ little with nominal size compared to this drawing.

PDCPD BUTTERFLY VALVE 700mm - 1200mm(28inch - 48inch)



Nominal Size
700mm — 1200mm
(28inch — 48inch)

FEATURES

High Corrosion Resistance

The body and disc are made of PDCPD. And the corrosion-resistant resin, covering the whole contact surface, makes the valve highly resistant against chemical and sea water.

Light Weight

PDCPD having 1/4 or less the specific gravity of iron, the PDCPD BUTTERFLY VALVE is significantly lighter than a metallic butterfly valve.

Tight Seal

A seat made of a synthetic rubber, makes the valve highly water-tight.

Excellent Flow Characteristics

Being concentric and streamlined, the disc gives small resistance to a flow, thus allowing it to be laminar. The seat is kept clean, since it is integrated with the entire internal wall of the body.

Easy to Install

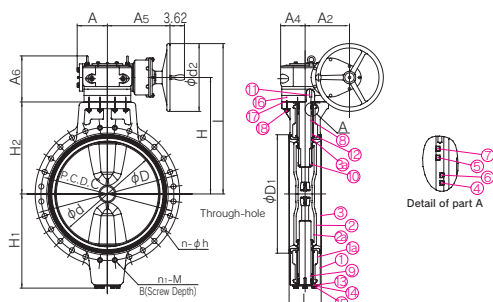
The seat is flanged, so that it needs no gasket. The PDCPD BUTTERFLY VALVE is so light that it is easy install.

Economics

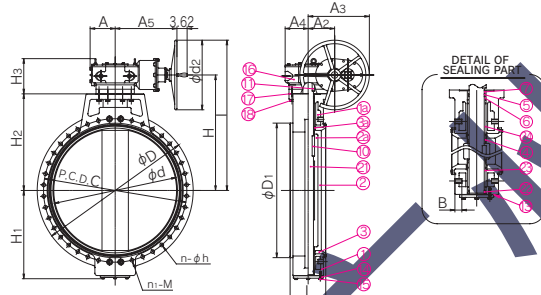
Because of its high corrosion resistance, the PDCPD BUTTERFLY VALVE remains easy to operate after prolonged periods of use and needs little maintenance. Its light weight reduces piping costs.

DIMENSION

700mm — 1000mm(28inch — 40inch)



1100mm, 1200mm(44inch, 48inch)



APPLICATIONS

Irrigation facilities, water supply and sewerage systems, heat accumulators, seawater, air pipelines, etc.

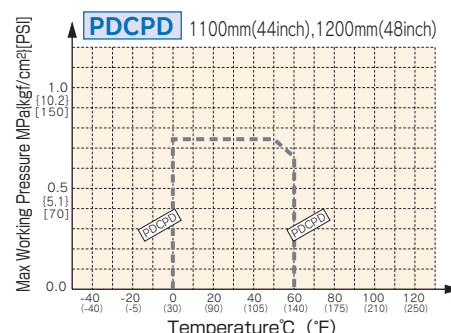
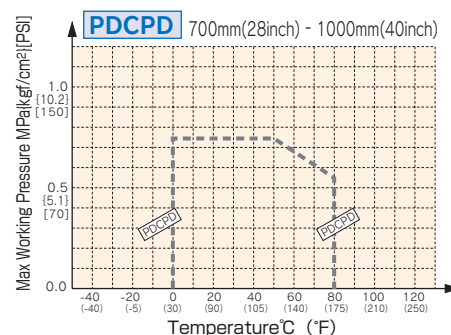
SPECIFICATIONS

Body material	Body & Disc=PDCPD. Seat=EPDMetc.
Nominal Size	700mm(28inch) - 1200mm(48inch)
Max. Working Pressure	0.75Mpa{7.7kgf/cm ² }[110PSI]
Working Temperature	70 - 1000mm(28inch - 40inch) 0 - 80°C (30° F - 176° F) 1100, 1200mm(44inch - 48inch) 0 - 60°C (30° F - 140° F)

PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	PDCPD
②	DISC	1	PDCPD
③	SEAT	1	
④	O-RING (A)	11	EPDM
⑤	O-RING (B)	3	
⑥	O-RING (C)	1	NBR
⑦	O-RING (D)	1	NBR
⑧	STEM (A)	1	STAINLESS STEEL (SUS304)
⑨	STEM (B)	1	STAINLESS STEEL (SUS304)
⑩	KEY (A)	1	CARBON STEEL (S45C)
⑪	KEY (B)	1	CARBON STEEL (S45C)
⑫	BUSH	2	BRONZE CAST (BC6)
⑬	GASKET (A)	1	NONAS SHEET
⑭	STEM HOLDER	1	STAINLESS STEEL (SUS304)
⑮	BOLT (A)	6	STAINLESS STEEL (SUS304)
⑯	GEAR BOX	1	CASTIRON (FC200) etc.
⑰	GASKET (B)	1	NONAS SHEET
⑱	BOLT (B)	8	STAINLESS STEEL (SUS304)
⑲	STEM	1	STAINLESS STEEL (SUS304)
⑳	THRUST	1	BRONZE CAST (BC6)
㉑	BUSH (A)	1	BRONZE CAST (BC6)
㉒	BUSH (B)	1	BRONZE CAST (BC6)
㉓	INSERT METAL OF BODY	1	CAST IRON (FCD450)
㉔	INSERT METAL OF DISC	1	CAST IRON (FCD450)
㉕	INSERT METAL OF RING	2	STAINLESS STEEL (SUS304)

WORKING PRESSURE VS. TEMPERATURE



LIST OF FLANGE STANDARDS

Nominal Size mm(inch)	FLANGE STANDARDS			Max.Working Pressure
	JIS 10K	ANSI Class 150	DIN PN10	MPa {kgf/cm ² } [PSI]
700(28)	○	○	○	0.75 {7.7} [110]
800(32)	○	○	○	0.75 {7.7} [110]
900(36)	○	—	○	0.75 {7.7} [110]
1000(40)	○	○	○	0.75 {7.7} [110]
1100(44)	○	○	—	0.75 {7.7} [110]
1200(48)	○	○	○	0.75 {7.7} [110]

DIMENSIONS TABLE

DIN																							Unit:mm	
Nominal Size		d	DIN PN 10								D	D ₁	D ₂	L	H	I	H ₁	H ₂	A	A ₂	A ₄	A ₅	A ₆	Gear box Model No
			C	h	N	n	n ₁		M	B														
mm	inch						/side	/total																
700	28	670	840	33	24	20	4	8	M27	35	928	760	350	206	685	897	589	590	194	286	158	403	296	BRL-10
800	32	770	950	33	28	20	4	8	M30	35	1034	870	350	240	715	927	619	620	194	286	158	403	296	BRL-10
900	36	870	1050	33	28	24	4	8	M30	35	1168	978	350	240	800	1112	704	705	194	286	158	403	296	BRL-10
1000	40	970	1160	39	28	24	4	8	M33	42	1262	1080	460	300	845	1157	749	750	229	242	210	565	323	BRL-20
1200	48	1170	1380	39	32	28	4	8	M36	42	1488	1300	460	350	992	1310	850	890	229	242	210	565	323	BRL-20

ANSI																												Unit:mm				
Nominal Size		d	ANSI Class 125								ANSI Class 150								D	D ₁	D ₂	L	H	I	H ₁	H ₂	A	A ₂	A ₄	A ₅	A ₆	Gear box Model No.
			C	h	N	n	n ₁		M	B	C	h	N	n	n ₁		M	B														
mm	inch						/side	/total						/side	/total																	
700	28	26.38	—	—	—	—	—	—	—	—	34.00	1.38	28	24	4	8	1 1/4	1.38	36.54	29.92	17.13	8.11	29.41	37.99	23.19	23.23	7.64	11.26	6.22	15.87	11.65	BRL-10
800	32	30.31	—	—	—	—	—	—	—	—	38.50	1.62	28	24	4	8	1 1/2	1.38	41.34	34.25	17.13	9.45	30.59	39.17	24.37	24.41	7.64	11.26	6.22	15.87	11.65	BRL-10
900	36	34.25	47.25	1.62	36	32	4	8	1 1/2	1.38	—	—	—	—	—	—	—	45.98	38.50	25.00	9.45	33.94	46.46	27.72	27.76	7.64	11.26	6.22	15.87	11.65	BRL-10	
1000	40	38.19	—	—	—	—	—	—	—	—	47.25	1.62	36	32	4	8	1 1/2	1.38	50.00	42.52	25.00	11.81	36.30	48.82	29.49	29.53	9.02	9.53	8.27	22.24	12.72	BRL-20
1100	44	42.52	—	—	—	—	—	—	—	—	51.75	1.62	40	36	4	8	1 1/2	1.77	54.33	47.05	25.00	11.81	39.84	52.36	30.71	33.07	9.02	9.53	8.27	22.24	12.72	BRL-20
1200	48	46.06	56.00	1.62	44	40	4	8	1 1/2	1.77	56.00	1.62	44	40	4	8	1 1/2	1.77	58.58	51.18	25.00	13.78	41.81	54.33	33.46	35.04	9.02	9.53	8.27	22.24	12.72	BRL-20

Nominal Size mm(inch)	700(28)	800(32)	900(36)	1000(40)	1100(44)	1200(48)
Stem Torque N·m {kgf·cm}	4,500 {45,900}	5,900 {60,200}	7,500 {76,500}	10,200 {104,000}	13,000 {132,600}	15,000 {153,000}
Hand Wheel operating force N{kgf}	339 {35}	444 {45}	565 {58}	326 {33}	415 {42}	479 {49}
Number of Handle Rotation	60	60	60	137	137	137
Gear Box Model	BRL-10	BRL-10	BRL-10	BRL-20	BRL-20	BRL-20

ROTARY DAMPER (PVC,PP) 40mm - 600mm(1½inch - 24inch)

FEATURES

DAMPER STYLE is Designed for Flow Control.

Note : DAMPER STYLE is not a tight shut off valve.
Consult factory for Leakage rates.

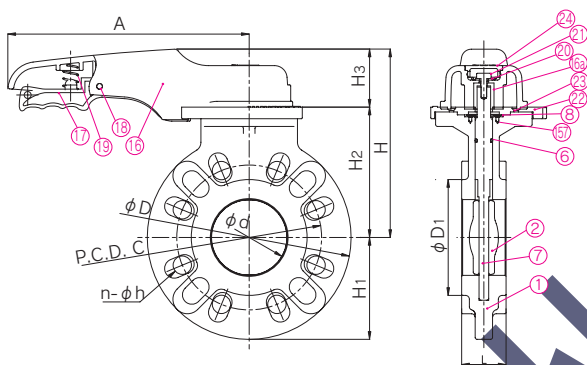
SPECIFICATIONS

Body material	Nominal size mm(inch)	Working Temperature °C(B °F)	Max. Working Pressure (at R.T.) MPa{kgf/cm²}[PSI]		
			40(1½inch)~200(8inch)	250(10inch)~350(14inch)	400(16inch)~600(24inch)
PVC	40 - 350 (1½ - 14)	0 - 50 (30 - 120)	0.1 {1.0} [15]	0.05 {0.5} [7]	—
PP	40 - 600 (1½ - 24)	-20 - 80 (-5 - 175)	0.1 {1.0} [15]	0.05 {0.5} [7]	0.05 {0.5} [7]
PVDF	40 - 600 (1½ - 24)	-20 - 120 (-5 - 250)	0.1 {1.0} [15]	0.05 {0.5} [7]	0.05 {0.5} [7]

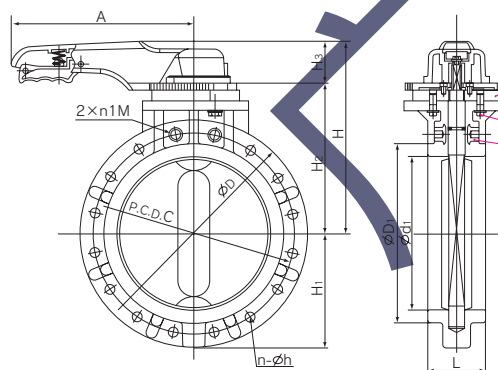


● PVC

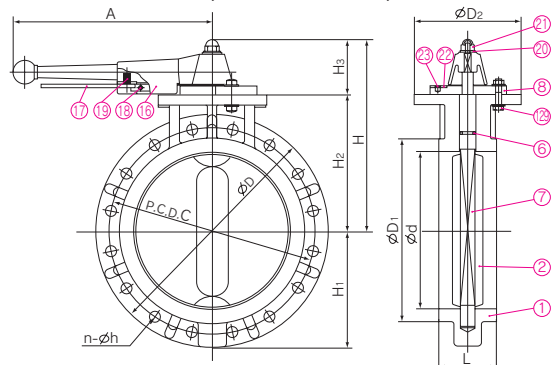
● PVC, PP
40mm — 200mm (1½inch — 8inch)



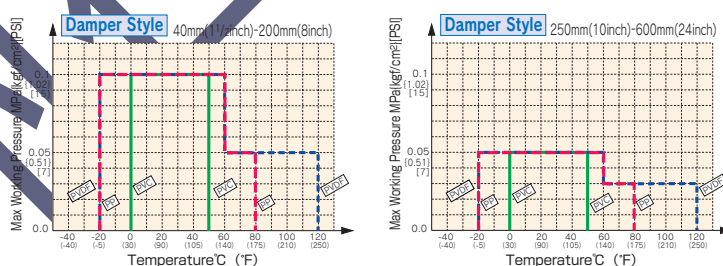
250mm — 400mm (10inch — 16inch)



450mm — 600mm (16inch — 24inch)



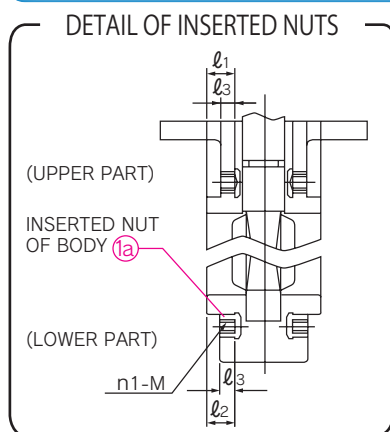
WORKING PRESSURE VS. TEMPERATURE



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	BODY/DISC/STEM	
②	DISC	1	PVC/PP/PVC	
⑦	STEM	1	PP/PP/PP	
⑥	O-RING(C)	1	EPDM, FKM, OTHERS	
⑧	STEM HOLDER(A)	1	STAINLESS STEEL304 PP	40mm - 200mm 450mm - 600mm
⑨	BOLT(A)	3	STAINLESS STEEL304	250mm - 400mm
⑩	HANDLE(A)	1	PP	
⑪	INSERTED METAL OF HANDLE	1	STAINLESS STEEL316	40mm - 400mm
⑫	HANDLE LEVER	1	PPG STAINLESS STEEL304	40mm - 400mm 450mm - 600mm
⑬	PIN	1	PPG STAINLESS STEEL304	40mm - 400mm 450mm - 600mm
⑭	SPRING	1	STAINLESS STEEL304	
⑮	WASHER(A)	1	STAINLESS STEEL304	
⑯	BOLT(B)	1	STAINLESS STEEL304	40mm - 400mm
⑰	NUT(B)	1	STAINLESS STEEL304	450mm - 600mm
⑱	LOCKING PLATE	1	PPG STAINLESS STEEL304	40mm - 400mm 450mm - 600mm
⑲	SCREW(B)	4	STAINLESS STEEL304	40mm - 400mm
⑳	CAP(A)	1	PP	40mm - 400mm
㉑	BOLT · NUT(N)	3	STAINLESS STEEL304	450mm - 600mm
㉒	STEM	1	PPG	250mm - 400mm
㉓	INSERTED METAL OF BODY	4	COPPER ALLOY(C3604)	10k400mm - 600mm

DIMENSIONS TABLE



DIN													Unit:mm
Nominal Size		d	DIN PN 10			D ₁ PVC,PP	D	L	H	H ₁	H ₂	H ₃	A
mm	inch		C	n	h								
40	1 1/2	47	110	4	18	86	150	32	156	75	100	56	220
50	2	58	125	4	18	96	165	35	166	83	110	56	220
65	2 1/2	71	145	4	18	116	185	37	176	93	120	56	220
80	3	79	160	8	18	120	211	37	191	106	135	56	250
100	4	104	180	8	18	152	238	47	206	119	150	56	250
125	5	131	210	8	18	190	264	57	237	132	168	69	320
150	6	152	240	8	22	208	285	62	252	143	183	69	320
200	8	197	295	8	22	264	340	76	283	170	214	69	400
250	10	247	350	12	23	321	406	96	342	203	273	69	400
300	12	298	400	12	23	370	483	116	399	242	330	69	400
350	14	347	460	16	23	420	520	116	426	260	338	69	400
400	16	394	515	16	27	470	600	157	451	300	382	69	400
450	18	441	565	20	27	525	630	167	496	315	370	126	323
500	20	488	620	20	27	575	699	177	526	350	400	126	323
600	24	600	725	20	30	686	813	197	591	424	465	126	323

ANSI													Unit:inch
Nominal Size		d	ANSI Class 150			D ₁ PVC,PP	D	L	H	H ₁	H ₂	H ₃	A
inch	mm		C	n	h								
1 1/2	40	1.83	3.68	4	0.63	3.39	5.91	1.26	6.14	2.95	3.94	2.20	8.66
2	50	2.26	4.74	4	0.75	3.78	6.50	1.38	6.54	3.25	4.33	2.20	8.66
2 1/2	65	2.78	5.49	4	0.75	4.57	7.28	1.46	6.93	3.64	4.72	2.20	8.66
3	80	3.09	6.00	4	0.75	4.72	8.31	1.46	7.52	4.15	5.31	2.20	9.84
4	100	4.07	7.50	8	0.75	5.98	9.37	1.85	8.11	4.69	5.91	2.20	9.84
5	125	5.14	8.50	8	0.87	7.48	10.39	2.24	9.33	5.20	6.61	2.72	12.60
6	150	5.96	9.51	8	0.87	8.19	11.22	2.44	9.92	5.61	7.20	2.72	12.60
8	200	7.76	11.75	8	0.87	10.39	13.39	2.99	11.14	6.69	8.43	2.72	15.75
10	250	9.72	14.25	12	0.98	12.64	15.98	3.78	13.46	7.99	10.75	2.72	15.75
12	300	11.73	17.01	12	0.98	14.57	19.02	4.57	15.71	9.53	12.99	2.72	15.75
14	350	13.66	18.74	12	1.14	16.54	20.47	4.57	16.77	10.24	13.31	2.72	15.75
16	400	15.51	21.24	16	1.14	18.50	23.62	6.18	17.76	11.81	15.04	2.72	15.75
18	450	17.36	22.76	16	1.26	20.67	24.80	6.57	19.53	12.40	14.57	4.69	12.72
20	500	19.21	25.00	20	1.26	22.64	27.52	6.97	20.71	13.78	15.75	4.96	12.72
24	600	23.62	29.51	20	1.38	27.01	32.01	7.76	23.27	16.69	18.31	4.96	12.72

Note : The shape and appearance of the valve differ a little with nominal size compared to the drawing.

FEATURES

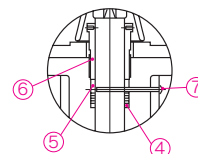
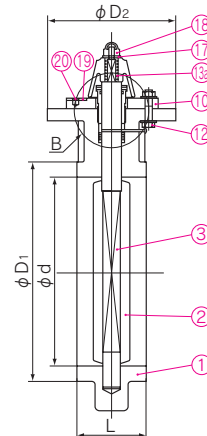
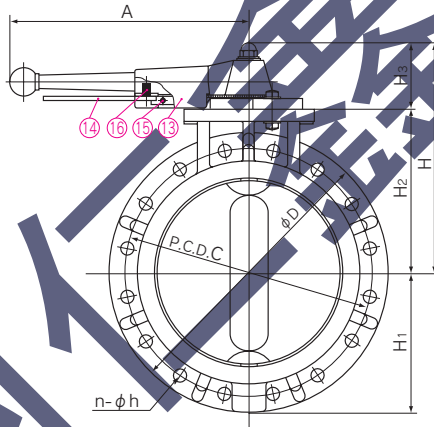
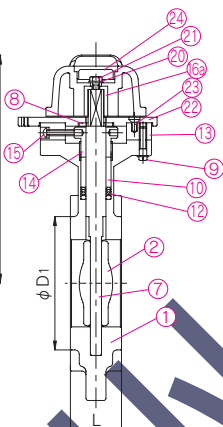
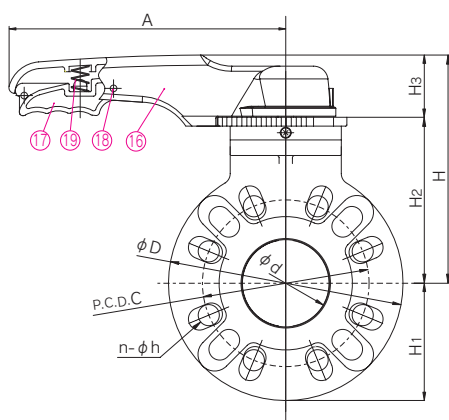
Note : DAMPER STYLE is not a tight shut off valve.
Consult us for Leakage rates.



● PVDF

● PVDF
40mm – 200mm (1½inch – 8inch)

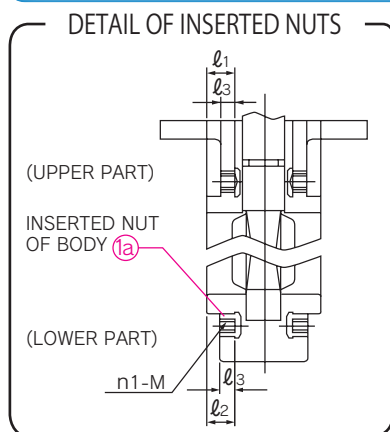
250mm – 600mm (10inch – 24inch)
Consult us more details



Part"B"

PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	REMARKS
①	BODY	1	PVDF	
②	DISC	1	PVDF	
⑦	STEM	1	PVDF	
⑧	STEM HOLDER(A)	1	STAINLESS STEEL304	40mm - 300mm(1½"-14")
⑨	BOLT(A)	4	STAINLESS STEEL304	
⑩	BUSH(A)	1	PTFE	40mm - 350mm(1½"-14")
		1	PVDF	400mm - 600mm(16"-24")
⑫	V-PACKING	1	PTFE	
⑬	SPECER(A)	1set	C-PVC	
⑭	GLAND	1set	PVDF	
⑮	SCREW(A)	1	STAINLESS STEEL304	
⑯	HANDLE(A)	1	PP	
⑰	HANDLE INSERTED METAL	1	STAINLESS STEEL304	
⑱	HANDLE LEVER	1	PPG	
⑲	PIN	1	PPG	
⑳	SPRING	1	STAINLESS STEEL304	
㉑	WASHER(A)	1	STAINLESS STEEL304	
㉒	BOLT(B)	1	STAINLESS STEEL304	
㉓	LOCKING PLATE	1	PPG	
㉔	SCREW(B)	2	STAINLESS STEEL304	
㉕	CAP(A)	1	PP	
㉖	STEM HOLDER(C)	1	PP	300mm - 400mm(12"-16")
㉗	BODY INSERTED METAL	4	COPPER ALLOY	

DIMENSIONS TABLE


DIN													Unit:mm
Nominal Size		d	DIN PN 10			D ₁ PVDF	D	L	H	H ₁	H ₂	H ₃	A
mm	inch		C	n	h								
40	1 1/2	46	110	4	18	86	150	32	179	75	123	56	220
50	2	57	125	4	18	96	165	35	189	83	133	56	220
65	2 1/2	70	145	4	18	116	185	37	199	93	143	56	220
80	3	78	160	8	18	120	211	37	214	106	157	56	250
100	4	103	180	8	18	152	238	47	229	119	173	56	250
125	5	130	210	8	18	190	264	57	257	132	188	69	320
150	6	150	240	8	22	208	285	62	272	143	203	69	320
200	8	197	295	8	22	264	340	76	303	170	234	69	400
250	10	247	350	12	23	321	406	96	358	203	240	118	323
300	12	298	400	12	23	370	483	116	419	242	297	122	323
350	14	347	460	16	23	420	520	116	422	260	300	122	323
400	16	394	515	16	27	470	600	157	472	300	350	122	323
450	18	441	565	20	27	525	630	167	516	315	370	126	323
500	20	488	620	20	27	575	699	177	546	350	400	126	323
600	24	600	725	20	30	686	813	197	611	424	465	126	323

ANSI													Unit:inch
Nominal Size		d	ANSI Class 150			D ₁ PVDF	D	L	H	H ₁	H ₂	H ₃	A
inch	mm		C	n	h								
1 1/2	40	1.81	3.88	4	0.62	3.39	5.91	1.26	7.05	2.95	4.84	2.20	8.66
2	50	2.24	4.75	4	0.75	3.78	6.50	1.38	7.44	3.27	5.24	2.20	8.66
2 1/2	65	2.76	5.50	4	0.75	4.57	7.28	1.46	7.83	3.66	5.63	2.20	8.66
3	80	3.07	6.00	4	0.75	4.72	8.31	1.46	8.43	4.17	6.22	2.20	9.84
4	100	4.06	7.50	8	0.75	5.98	9.37	1.85	9.02	4.69	6.81	2.20	9.84
5	125	5.12	8.50	8	0.88	7.48	10.39	2.24	10.12	5.20	7.40	2.72	12.60
6	150	5.91	9.50	8	0.88	8.19	11.22	2.44	10.71	5.63	7.99	2.72	12.60
8	200	7.76	11.75	8	0.88	10.39	13.39	3.23	11.93	6.69	9.21	2.72	15.75
10	250	9.72	14.25	12	0.98	12.20	15.98	3.78	14.09	7.99	9.45	4.65	12.72
12	300	11.73	17.01	12	0.98	14.57	19.02	4.57	16.50	9.53	11.69	4.80	12.72
14	350	13.66	18.74	12	1.14	16.54	20.47	4.57	16.61	10.24	11.81	4.80	12.72
16	400	15.51	21.24	16	1.14	18.50	23.62	6.18	18.58	11.81	13.78	4.80	12.72
18	450	17.36	22.76	16	1.26	20.67	24.80	6.57	20.31	12.40	14.57	4.96	12.72
20	500	19.21	25.00	20	1.26	22.64	27.52	6.97	21.50	13.78	15.75	4.96	12.72
24	600	23.62	29.51	20	1.38	27.01	32.01	7.76	24.06	16.69	18.31	4.96	12.72



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