

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

FEATURES

DAMPER STYLE is Designed for Flow Control.

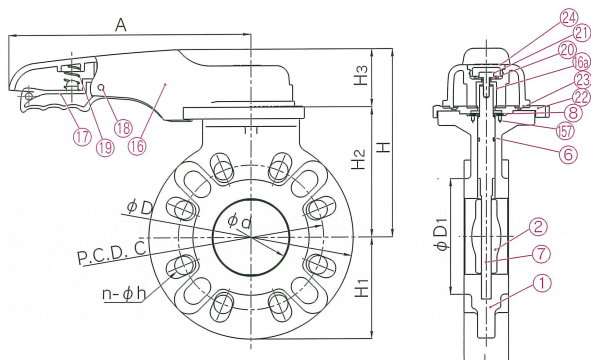
Note : DAMPER STYLE is not a tight shut off valve.
Consult factory for Leakage rates.

SPECIFICATIONS

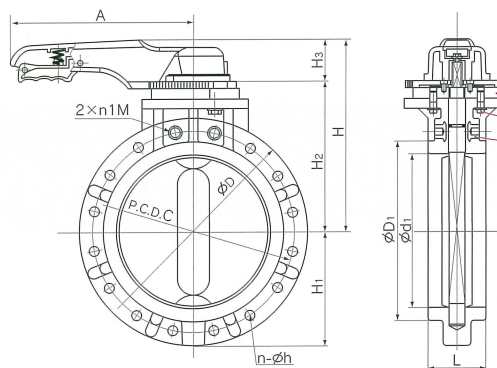
Body material	Nominal size mm(inch)	Working Temperature °C(°F)	Max. Working Pressure (at R.T.) MPa[kgf/cm²][PSI]		
			40(1½inch)~200(8inch)	250(10inch)~350(14inch)	400(16inch)~600(24inch)
PVC	40 - 350 (1½ - 14)	0 - 50 (30 - 120)	0.1 {1.0} [15]	0.05 {0.5} [7]	—
PP	40 - 600 (1½ - 24)	-20 - 80 (-5 - 175)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

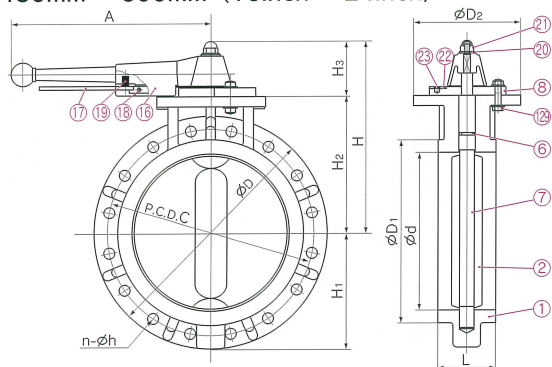
● PVC, PP
40mm - 200mm (1½inch - 8inch)



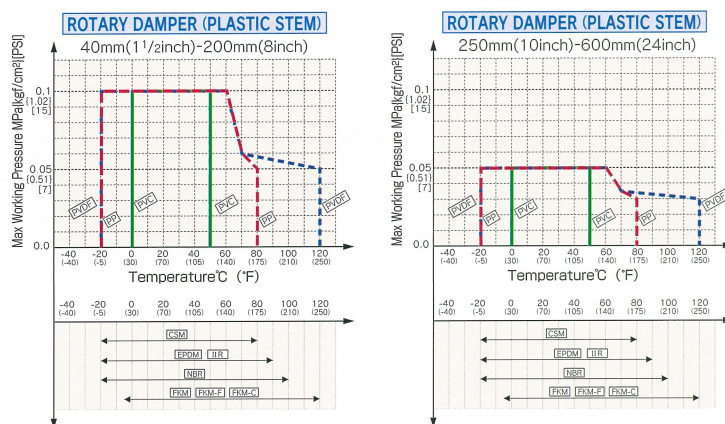
250mm - 400mm (10inch - 16inch)



450mm - 600mm (16inch - 24inch)



WORKING PRESSURE VS. TEMPERATURE

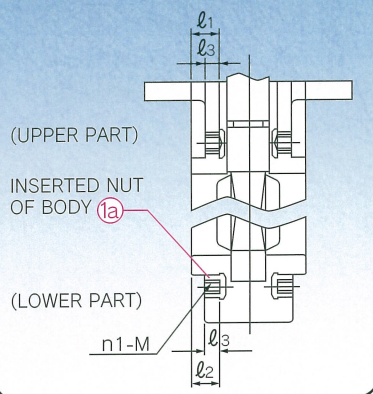


PARTS & MATERIALS

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	40mm - 200mm
⑨	BOLT(A)	3	PP	450mm - 600mm
⑯	HANDLE(A)	1	STAINLESS STEEL304	250mm - 400mm
⑯	INSERTED METAL OF HANDLE	1	PPG	40mm - 400mm
⑰	HANDLE LEVER	1	STAINLESS STEEL304	40mm - 400mm
⑱	PIN	1	PPG	450mm - 600mm
⑲	SPRING	1	STAINLESS STEEL304	40mm - 400mm
⑳	WASHER(A)	1	STAINLESS STEEL304	450mm - 600mm
㉑	BOLT(B)	1	PPG	40mm - 400mm
㉑	NUT(B)	1	STAINLESS STEEL304	450mm - 600mm
㉒	LOCKING PLATE	1	PPG	40mm - 400mm
㉓	SCREW(B)	4	STAINLESS STEEL304	450mm - 600mm
㉔	CAP(A)	1	PPG	40mm - 400mm
㉕	BOLT·NUT(N)	3	STAINLESS STEEL304	450mm - 600mm
㉖	STEM HOLDER(C)	1	PPG	250mm - 400mm
㉗	INSERTED METAL OF BODY	4	COPPER ALLOY(C3604)	10k400mm - 600mm

DIMENSIONS TABLE

DETAIL OF INSERTED NUTS



JIS							Unit:mm		
Nominal Size	M	BOLT HOLES n	Q'TY OF INSERTED NUT			TOTAL (2×n ₁)	ℓ ₁	ℓ ₂	ℓ ₃
			UPPER	LOWER					
400	16	M24	14	2×2	—	4	46	—	24
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

1) PP, body : used for 400(16inch)~600mm(24inch) (JIS 10K) only

JIS																Unit:mm
Nominal Size	mm	inch	d	JIS 10K					D ₁ PVC,PP	D	L	H	H ₁	H ₂	H ₃	A
				C	n	h	n ₁	M								
40	1 1/2	47	105	4	19	—	—	—	86	150	32	156	75	100	56	220
50	2	58	120	4	19	—	—	—	96	165	35	166	83	110	56	220
65	2 1/2	71	140	4	19	—	—	—	116	185	37	176	93	120	56	220
80	3	79	150	8	19	—	—	—	120	211	37	191	106	135	56	250
100	4	104	175	8	19	—	—	—	152	238	47	206	119	150	56	250
125	5	131	210	8	23	—	—	—	190	264	57	237	132	168	69	320
150	6	152	240	8	23	—	—	—	208	285	62	252	143	183	69	320
200	8	197	290	12	23	—	—	—	264	340	76	283	170	214	69	400
250	10	247	355	12	25	—	—	—	321	406	96	342	203	273	69	400
300	12	298	400	16	25	—	—	—	370	483	116	399	242	330	69	400
350	14	347	445	16	25	—	—	—	420	520	116	426	260	338	69	400
400	16	394	510	14	27	2	M24	—	470	600	157	451	300	382	69	400
450	18	441	565	16	27	4	M24	—	525	630	167	496	315	370	126	323
500	20	488	620	16	27	4	M24	—	575	699	177	526	350	400	126	323
600	24	600	730	20	33	4	M30	—	686	813	197	591	424	465	126	323

DIN														Unit:mm
Nominal Size mm inch		d	DIN PN 10			D ₁ PVC,PP	D	L	H	H ₁	H ₂	H ₃	A	
			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 inch mm		d	ANSI Class 150			D ₁	D	L	H	H ₁	H ₂	H ₃	A	
			C	n	h	PVC,PP								
1½	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	
2½	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.

ROTARY DAMPER (PVDF) 40mm - 600mm(1½inch - 24inch)

FEATURES

DAMPER STYLE is Designed for Flow Control.

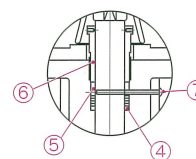
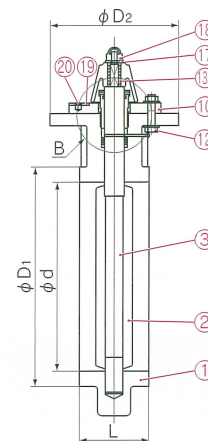
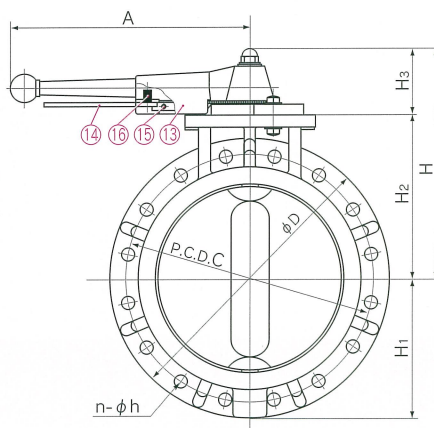
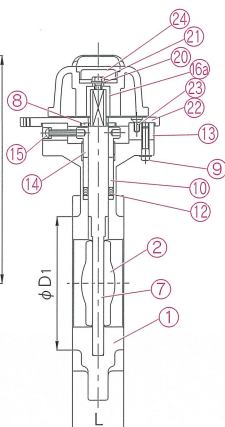
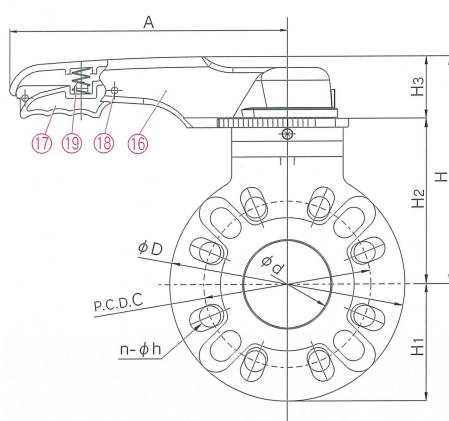
Note : DAMPER STYLE is not a tight shut off valve.
Consult us for Leakage rates.



● PVDF

● PVDF
40mm – 200mm (1½inch – 8inch)

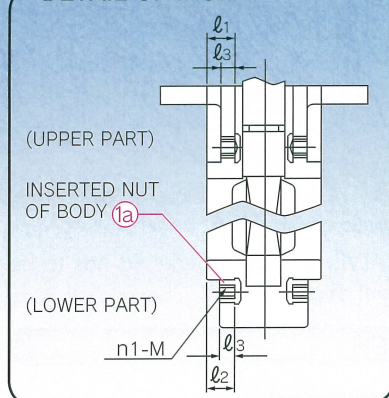
250mm – 600mm (10inch – 24inch)
Consalt us more details



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
DETAIL OF INSERTED NUTS


JIS							Unit:mm		
Nominal Size		M	BOLT HOLES n	Q'TY OF INSERTED NUT			l ₁	l ₂	l ₃
mm	inch			UPPER	LOWER	TOTAL (2×n ₁)			
400	16	M24	14	2×2	—	4	46	—	24
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

1) PP, body : used for 400(16inch)~600mm(24inch)(JIS 10K)only

JIS															Unit:mm
Nominal Size		d	JIS 10K					D ₁	D	L	H	H ₁	H ₂	H ₃	A
mm	inch		C	n	h	n ₁	M	PVDF							
40	1 ¹ / ₂	46	105	4	19	—	—	86	150	32	179	75	123	56	220
50	2	57	120	4	19	—	—	96	165	35	189	83	133	56	220
65	2 ¹ / ₂	70	140	4	19	—	—	116	185	37	199	93	143	56	220
80	3	78	150	8	19	—	—	120	211	37	214	106	157	56	250
100	4	103	175	8	19	—	—	152	238	47	229	119	173	56	250
125	5	130	210	8	23	—	—	190	264	57	257	132	188	69	320
150	6	150	240	8	23	—	—	208	285	62	272	143	203	69	320
200	8	197	290	12	23	—	—	264	340	76	303	170	234	69	400
250	10	247	355	12	25	—	—	321	406	96	358	203	240	118	323
300	12	298	400	16	25	—	—	370	483	116	419	242	297	122	323
350	14	347	445	16	25	—	—	420	520	116	422	260	300	122	323
400	16	394	510	14	27	2	M24	470	600	157	472	300	350	122	323
450	18	441	565	16	27	4	M24	525	630	167	516	315	370	126	323
500	20	488	620	16	27	4	M24	575	699	177	546	350	400	126	323
600	24	600	730	20	33	4	M30	686	813	197	611	424	465	126	323

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	n ₁								
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	n ₁								
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