

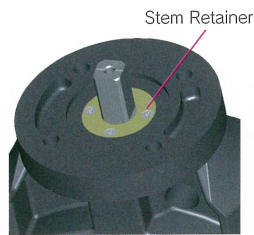
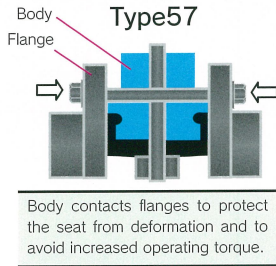
BUTTERFLY VALVE TYPE 57 40mm - 350mm(1½inch - 14inch)



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)**



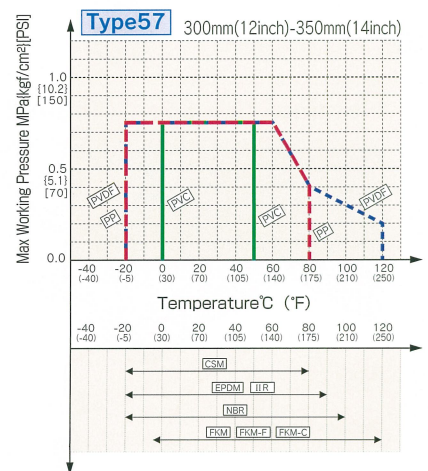
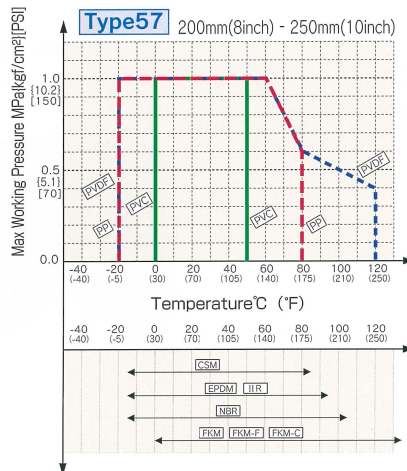
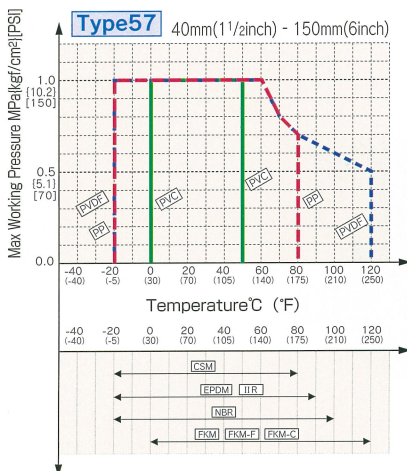
- Plastic Gear Box Housing**
Superior corrosion resistance allows applications such as severe chemicals and sea waters.
- NAMUR Mounting Dimension**
NAMUR standard is applied on the gear box housing.
- Highly Visible Position Indicator**
Highly visible from a distance.
- Stainless Steel Trim and Hardware**
- Plastic Hand Wheel**
Corrosion resistance gripping design allows easy operation.

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

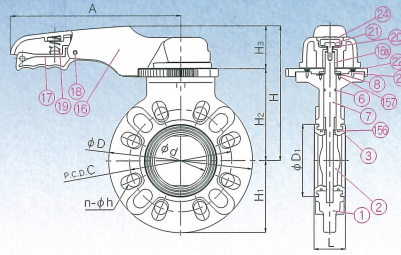
SPECIFICATIONS

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



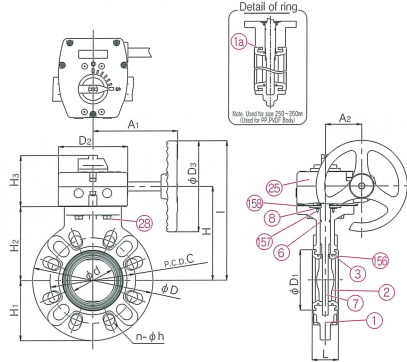
Lever Type ● 40mm(1½inch) – 200mm(8inch)



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/DISC PVC/PP PP/PP PVDF/PVDF PVC/PVC	⑮	PIN	1	PPG
②	DISC	1		⑲	SPRING	1	STAINLESS STEEL304
③	SEAT	1	EPDM FKM Others	⑳	WASHER (A)	1	STAINLESS STEEL304
⑥	O-RING(C)	1		㉑	BOLT (B)	1	STAINLESS STEEL304
⑦	STEM	1	STAINLESS STEEL403 Others	㉒	LOCKING PLATE	1	PPG
⑧	STEM RETAINER(A)	1	PP	㉓	SCREW (B)	4	STAINLESS STEEL304
⑯	HANDLE(A)	1	PP	㉔	CAP(A)	1	PP
⑰	HANDLE INSERTED METAL	1	STAINLESS STEEL316L	⑮	RETAINING RING	2	STAINLESS STEEL304
⑱	HANDLE LEVER	1	PPG	⑮	SCREW (F)	4	STAINLESS STEEL304

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



PARTS & MATERIALS

No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	BODY/DISC PVC/PP PP/PP PVDF/PVDF	㉕	GEAR BOX	1	PLASTIC STAINLESS STEEL
②	DISC	1		㉖	BOLT (C)	4	STAINLESS STEEL304
③	SEAT	1	EPDM FKM Others	⑮	RETAINING RING	2	STAINLESS STEEL (SCS13)
⑥	O-RING(C)	1		⑮	SCREW (F)	4	STAINLESS STEEL304
⑦	STEM	1	STAINLESS STEEL403 Others	⑮	GASKET (L)	1	EPDM
⑧	STEM RETAINER(A)	1	PP	⑮	RING	2	STEEL400 (Unichrome coated)

DIMENSIONS TABLE

Nominal Size		d	JIS 5K			JIS 10K			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	C	n	h						LEVER	GEAR		LEVER	GEAR	LEVER	GEAR					
40	1½		45	95	4	15	105	4						19	150		71	122	160	39					
50	2	56	105	4	15	120	4	19	165	81	122	160	42	166	140	83	110	105	56	92	220	220	167	64	
65	2½	69	130	4	15	140	4	19	185	95	122	160	46	176	150	93	120	115	56	92	230	220	167	64	
80	3	77	145	4	19	150	8	19	211	105	122	160	46	191	165	106	135	130	56	92	245	250	167	64	
100	4	102	165	8	19	175	8	19	238	134	122	160	56	206	180	119	150	145	56	92	260	250	167	64	
125	5	129	200	8	19	210	8	23	263	169	122	160	66	237	195	132	168	160	69	92	275	320	167	64	
150	6	150	230	8	19	240	8	23	285	190	122	160	71	252	210	143	183	175	69	92	290	320	167	64	
200	8	195	280	8	23	290	12	23	340	242	122	160	87	283	241	170	214	206	69	92	321	400	167	64	
250	10	250	345	12	23	355	12	25	421	302	122	160	112	—	276	211	—	241	—	92	356	—	167	64	
300	12	303	390	12	23	400	16	25	488	360	188	300	129	—	340	244	—	298	—	108	490	—	272	99	
350	14	351	435	12	23	445	16	25	539	393	188	300	129	—	367	270	—	325	—	108	517	—	272	99	

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					
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	

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					
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.