



ابتکار صنعت نادین

شیر آلات صنعتی



TYPE			GATE					GATE					GATE					GATE									
Cast Iron																											
FIG			10FCHI					10FCL					10FCLS					125FCHI					125FCL				
PRESSURE			10K					10K					10K					Class 125					Class 125				
END CONNECTION			JIS B2239					JIS B2239					JIS B2239					ASME B16.1					ASME B16.1				
DIMENSIONS			inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D								
	1½	40	140	210	140	165	306	160	165	306	160	140	210	140	—	—	—	—	—								
	2	50	146	250	140	180	343	170	180	343	170	146	250	140	178	328	160	178	328	160							
	2½	65	159	285	160	190	389	170	190	389	170	159	285	160	190	382	170	190	382	170							
	3	80	165	350	160	200	462	200	200	462	200	165	350	160	203	436	170	203	436	170							
	4	100	171	400	180	230	547	250	230	547	250	171	400	180	229	532	225	229	532	225							
	5	125	190	460	225	250	648	280	250	648	280	190	465	225	254	627	225	254	627	225							
	6	150	210	515	225	270	759	300	270	759	300	210	515	225	267	726	250	267	726	250							
	8	200	241	635	300	290	956	350	290	956	350	241	630	300	292	919	280	292	919	280							
	10	250	273	760	350	330	1168	400	330	1168	400	—	—	—	330	1134	350	330	1134	350							
	12	300	305	870	350	350	1363	450	350	1363	450	—	—	—	356	1363	450	356	1363	450							
	14	350	—	—	—	381	1560	500	381	1560	500	—	—	—	381	1560	500	381	1560	500							
	16	400	—	—	—	—	—	—	406	1795	600	—	—	—	—	—	—	—	—	—							
	18	450	—	—	—	—	—	—	432	1995	600	—	—	—	—	—	—	—	—	—							
20	500	—	—	—	—	—	—	457	2230	680	—	—	—	—	—	—	—	—	—								
22	550	—	—	—	—	—	—	508	2640	760	—	—	—	—	—	—	—	—	—								
BODY			Cast Iron					Cast Iron					Cast Iron					Cast Iron									
BONNET			Cast Iron					Cast Iron					Cast Iron					Cast Iron									
STEM			Forged Brass					Forged Brass					Stainless Steel					Forged Brass									
DISC			Cast Iron					Cast Iron					Cast Iron					Cast Bronze / Cast Iron									
SEAT			Cast Bronze					Cast Bronze					Stainless Steel					Cast Bronze									

TYPE	GATE					GATE					GLOBE					GLOBE					GLOBE				
Cast Iron																									
FIG	125FCLS					125FCWI					10FCJ					10FCJS					125FCJ				
PRESSURE	Class 125					Class 125					10K					10K					Class 125				
END CONNECTION	ASME B16.1					ASME B16.1					JIS B2239					JIS B2239					ASME B16.1				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D					
	1½	40	—	—	—	—	—	—	190	260	160	190	260	160	—	—	—	—	—	—					
	2	50	178	328	160	178	250	140	200	277	180	200	277	180	203	277	180	203	277	180					
	2½	65	190	382	170	190	285	160	220	307	180	220	307	180	216	307	180	216	307	180					
	3	80	203	436	170	203	350	160	240	353	225	240	353	225	241	353	225	241	353	225					
	4	100	229	532	225	229	400	180	290	404	280	290	404	280	292	404	280	292	404	280					
	5	125	254	627	225	254	465	225	360	467	300	360	467	300	330	467	300	330	467	300					
	6	150	267	726	250	267	515	225	410	533	350	410	533	350	356	533	350	356	533	350					
	8	200	292	919	280	292	630	300	500	620	450	500	620	450	495	620	450	495	620	450					
	10	250	330	1134	350	330	760	350	—	—	—	620	665	450	—	—	—	—	—	—					
	12	300	356	1363	450	356	870	350	—	—	—	700	883	500	—	—	—	—	—	—					
14	350	381	1560	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
BODY	Cast Iron					Cast Iron					Cast Iron					Cast Iron					Cast Iron				
BONNET	Cast Iron					Cast Iron					Cast Iron					Cast Iron					Cast Iron				
STEM	Stainless Steel					Forged Brass					Forged Brass					Stainless Steel					Forged Brass				
DISC	Cast Bronze					Cast Iron					Cast Bronze / Cast Iron					Cast Iron / Stainless Steel					Cast Bronze / Cast Iron				

TYPE	GLOBE					SWING CHECK			SWING CHECK			SWING CHECK			WAFER CHECK		
Cast Iron																	
FIG	125FCJS					10FCO			10FCOC			125FCO			10FWZ		
PRESSURE	Class 125					10K			10K			Class 125			10K		
END CONNECTION	ASME B16.1					JIS B2239			JIS B2239			ASME B16.1			Wafer Type		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
1 1/2	40	—	—	—	—	190	106	—	—	—	—	—	—	—	54	128	55
2	50	203	277	180	200	111	—	—	200	116	—	203	111	—	56	143	70
2 1/2	65	216	307	180	220	121	—	—	220	126	—	216	121	—	56	150	70
3	80	241	353	225	240	145	—	—	240	153	—	241	145	—	59	156	70
4	100	292	404	280	290	165	—	—	290	170	—	292	165	—	66	169	70
5	125	330	467	300	360	207	—	—	360	217	—	330	207	—	72	183	70
6	150	356	533	350	410	225	—	—	410	235	—	356	225	—	78	216	80
8	200	495	620	450	500	268	—	—	500	273	—	495	268	—	96	243	80
10	250	—	—	—	620	315	—	—	—	—	—	622	315	—	109	290	90
12	300	—	—	—	700	356	—	—	—	—	—	—	—	—	145	315	90
14	350	—	—	—	—	—	—	—	—	—	—	—	—	—	184	330	90
16	400	—	—	—	—	—	—	—	—	—	—	—	—	—	191	355	90
18	450	—	—	—	—	—	—	—	—	—	—	—	—	—	204	388	90
BODY	Cast Iron					Cast Iron			Cast Iron			Cast Iron			Cast Iron+NBR		
BONNET	Cast Iron					—			—			—			Cast Bronze / Forged Brass		
COVER	—					Cast Iron			Cast Iron			Cast Iron			—		
STEM	Stainless Steel					—			—			—			Brass		
HINGE PIN	—					Forged Brass			Forged Brass			Forged Brass			Stainless Steel		
DISC	Cast Iron / Stainless Steel					Cast Bronze / Cast Iron			Cast Bronze			Cast Bronze / Cast Iron			Cast Bronze		

TYPE	WAFAER CHECK					WAFAER CHECK			WAFAER CHECK			WAFAER CHECK		
Cast Iron														
FIG	125FWNB					125FWNBE			PN16FWNBMB			PN16FWNBMBE		
PRESSURE	Class 125					125FWNBE			PN16			PN16		
END CONNECTION	Wafer Type					Wafer Type			Wafer Type			Wafer Type		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D
2	50	54	—	105	54	—	105	—	—	—	—	—	—	—
2 1/2	65	54	—	124	54	—	124	—	—	—	—	—	—	—
3	80	57	—	137	57	—	137	—	—	—	—	—	—	—
4	100	64	—	175	64	—	175	—	—	—	—	—	—	—
5	125	70	—	197	70	—	197	—	—	—	—	—	—	—
6	150	76	—	222	76	—	222	—	—	—	—	—	—	—
8	200	95	—	279	95	—	279	—	—	—	—	—	—	—
10	250	108	—	340	108	—	340	—	—	—	—	—	—	—
12	300	143	—	410	143	—	410	—	—	—	—	—	—	—
14	350	—	—	—	—	—	—	184	—	446	184	—	446	—
16	400	—	—	—	—	—	—	191	—	498	191	—	498	—
18	450	—	—	—	—	—	—	203	—	558	203	—	558	—
20	500	—	—	—	—	—	—	213	—	620	213	—	620	—
24	600	—	—	—	—	—	—	222	—	737	222	—	737	—
BODY	Cast Iron					Cast Iron			Cast Iron			Cast Iron		
HINGE PIN	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel		
DISC	Bronze					Bronze			Stainless Steel			Stainless Steel		
SEAT	NBR					EPDM			NBR			EPDM		

TYPE	GATE				GATE				GATE				GATE				GATE			
Ductile Iron																				
FIG	10SMS				10SMBF				10SMBOF				16SMB				16SMBO			
PRESSURE	10K				10K				10K				16K				16K			
END CONNECTION	BS21 (JIS B0203)				JIS B2239				JIS B2239				JIS B2239				JIS B2239			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
1/2	15	60	150	60	90	164	70	—	—	—	—	108	163	70	—	—	—	—	—	—
3/4	20	70	171	70	100	165	70	—	—	—	—	117	164	70	—	—	—	—	—	—
1	25	75	198	80	110	188	80	—	—	—	—	127	187	80	—	—	—	—	—	—
1 1/4	32	85	233	90	120	219	90	—	—	—	—	140	219	90	—	—	—	—	—	—
1 1/2	40	95	274	100	130	253	100	165	300	160	165	253	100	165	300	160	165	300	160	160
2	50	105	318	115	140	285	115	178	352	200	178	285	115	178	352	200	178	352	200	200
2 1/2	65	—	—	—	—	—	—	190	410	200	—	—	—	—	190	410	200	—	—	—
3	80	—	—	—	—	—	—	203	479	250	—	—	—	—	203	479	250	—	—	—
4	100	—	—	—	—	—	—	229	566	250	—	—	—	—	229	566	250	—	—	—
5	125	—	—	—	—	—	—	254	667	300	—	—	—	—	254	667	300	—	—	—
6	150	—	—	—	—	—	—	267	779	300	—	—	—	—	267	779	300	—	—	—
8	200	—	—	—	—	—	—	292	969	350	—	—	—	—	292	969	350	—	—	—
10	250	—	—	—	—	—	—	330	1181	400	—	—	—	—	330	1181	400	—	—	—
12	300	—	—	—	—	—	—	356	1404	450	—	—	—	—	356	1404	450	—	—	—
14	350	—	—	—	—	—	—	381	1538	490	—	—	—	—	—	—	—	—	—	—
16	400	—	—	—	—	—	—	406	1702	560	—	—	—	—	—	—	—	—	—	—
18	450	—	—	—	—	—	—	432	1538	620	—	—	—	—	—	—	—	—	—	—
20	500	—	—	—	—	—	—	457	1702	675	—	—	—	—	—	—	—	—	—	—
BODY	Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
BONNET	Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel / Carbon Steel / Cast Steel				Stainless Steel				Stainless Steel / Carbon Steel / Cast Steel			

TYPE	GATE				GATE				GATE				GLOBE				GLOBE			
Ductile Iron																				
FIG	16SMS				20SLS				150SMBO				10SJ				10SJBF			
PRESSURE	16K				20K				Class 150				10K				10K			
END CONNECTION	BS21 (JIS B0203)				BS21 (JIS B0203)				ASME B16.5				BS21 (JIS B0203)				JIS B2239			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
1/4	8	—	—	—	—	—	—	—	—	—	—	50	108	60	—	—	—	—	—	—
3/8	10	—	—	—	—	—	—	—	—	—	—	55	108	60	85	108	60	—	—	—
1/2	15	65	163	70	70	175	90	—	—	—	—	65	122	70	85	122	70	—	—	—
3/4	20	75	182	80	75	177	90	—	—	—	—	80	125	80	95	125	80	—	—	—
1	25	80	212	90	85	214	100	—	—	—	—	90	146	90	110	146	90	—	—	—
1 1/4	32	90	245	100	95	241	115	—	—	—	—	105	160	100	130	160	100	—	—	—
1 1/2	40	100	285	115	105	277	135	165	300	160	120	180	115	150	180	115	150	180	115	115
2	50	110	330	135	115	301	135	178	352	200	140	198	135	180	198	135	180	198	135	135
2 1/2	65	—	—	—	—	—	—	190	408	200	180	250	180	210	250	180	210	250	180	180
3	80	—	—	—	—	—	—	203	473	250	200	280	225	240	280	225	240	280	225	225
4	100	—	—	—	—	—	—	229	566	250	—	—	—	—	—	—	—	—	—	—
5	125	—	—	—	—	—	—	254	667	300	—	—	—	—	—	—	—	—	—	—
6	150	—	—	—	—	—	—	267	779	300	—	—	—	—	—	—	—	—	—	—
8	200	—	—	—	—	—	—	292	969	350	—	—	—	—	—	—	—	—	—	—
10	250	—	—	—	—	—	—	330	1181	400	—	—	—	—	—	—	—	—	—	—
12	300	—	—	—	—	—	—	356	1404	450	—	—	—	—	—	—	—	—	—	—
BODY	Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
BONNET	Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel / Carbon Steel / Cast Steel				Stainless Steel				Stainless Steel			

TYPE			GLOBE					GLOBE					GLOBE					GLOBE					GLOBE				
Ductile Iron																											
FIG			10SP					10SPBF					10SPBOF					10SPD					10SPDBF				
PRESSURE			10K					10K					10K					10K					10K				
END CONNECTION			BS21 (JIS B0203)					JIS B2239					JIS B2239					BS21 (JIS B0203)					JIS B2239				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D				
	3/8	10	64	107	60	108	107	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	1/2	15	70	125	80	108	125	80	—	—	—	70	125	80	108	125	80	108	125	80	108	125	80				
	3/4	20	80	125	80	117	125	80	—	—	—	80	125	80	117	125	80	117	125	80	117	125	80				
	1	25	90	145	100	127	145	100	—	—	—	90	146	100	127	145	100	127	145	100	127	145	100				
	1 1/4	32	110	162	115	140	162	115	—	—	—	110	162	115	140	162	115	140	162	115	140	162	115				
	1 1/2	40	120	180	115	165	180	115	—	—	—	120	180	115	165	180	115	165	180	115	165	180	115				
	2	50	140	198	135	203	198	135	203	302	200	140	198	135	203	198	135	203	198	135	203	198	135				
	2 1/2	65	—	—	—	—	—	—	216	317	225	—	—	—	—	—	—	—	—	—	—	—	—				
	3	80	—	—	—	—	—	—	241	356	250	—	—	—	—	—	—	—	—	—	—	—	—				
	4	100	—	—	—	—	—	—	292	377	250	—	—	—	—	—	—	—	—	—	—	—	—				
	5	125	—	—	—	—	—	—	356	460	300	—	—	—	—	—	—	—	—	—	—	—	—				
	6	150	—	—	—	—	—	—	406	524	350	—	—	—	—	—	—	—	—	—	—	—	—				
	8	200	—	—	—	—	—	—	495	585	400	—	—	—	—	—	—	—	—	—	—	—	—				
BODY			Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron				
BONNET			Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron				
STEM			Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC			Stainless Steel					Stainless Steel					Stainless Steel					G/F PTFE					G/F PTFE				
																		Soft Seated disc					Soft Seated disc				

TYPE			GLOBE					GLOBE					GLOBE					GLOBE									
Ductile Iron																											
FIG			10SPDBOF					10SD					10SDBF					10SDL					10SDLBF				
PRESSURE			10K					10K					10K					10K					10K				
END CONNECTION			JIS B2239					BS21 (JIS B0203)					JIS B2239					BS21 (JIS B0203)					JIS B2239				
DIMENSIONS			inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D								
	1/4	8	—	—	—	50	108	60	—	—	—	—	—	—	—	—	—	—	—								
	3/8	10	—	—	—	55	108	60	85	108	60	55	112	55	85	112	55	85	112								
	1/2	15	—	—	—	65	123	70	85	123	70	65	122	60	85	122	60	85	122								
	3/4	20	—	—	—	80	123	80	95	123	80	80	130	70	95	130	70	95	130								
	1	25	—	—	—	90	144	90	110	144	90	90	149	80	110	149	80	110	149								
	1 1/4	32	—	—	—	105	159	100	130	159	100	105	169	90	130	169	90	130	169								
	1 1/2	40	—	—	—	120	178	115	150	178	115	120	187	100	150	187	100	150	187								
	2	50	203	302	200	140	197	135	180	197	135	140	205	115	180	205	115	180	205								
	2 1/2	65	216	317	225	180	262	180	210	262	180	—	—	—	—	—	—	—	—								
	3	80	241	356	250	200	295	225	240	295	225	—	—	—	—	—	—	—	—								
	4	100	292	377	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
	5	125	356	460	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
6	150	406	527	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
8	200	495	600	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
BODY			Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron									
BONNET			Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron									
STEM			Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel									
DISC			G/F PTFE					G/F PTFE					G/F PTFE					G/F PTFE									
			Soft Seated disc					Soft Seated disc					Soft Seated disc					Soft Seated disc									

TYPE		GLOBE				GLOBE			GLOBE			GLOBE			GLOBE		
Ductile Iron																	
FIG		16SP				16SPB			16SPBO			20SY			20SYB		
PRESSURE		16K				16K			16K			20K			20K		
END CONNECTION		BS21 (JIS B0203)				JIS B2239			JIS B2239			BS21 (JIS B0203)			JIS B2239		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	3/8	10	64	110	60	108	111	60	—	—	—	75	136	70	110	136	70
	1/2	15	70	122	80	108	122	80	—	—	—	78	138	80	110	138	80
	3/4	20	85	128	80	117	128	80	—	—	—	91	157	100	120	157	100
	1	25	95	147	100	127	146	100	—	—	—	105	178	115	130	178	115
	1 1/4	32	110	165	115	140	165	115	—	—	—	122	202	135	160	202	135
	1 1/2	40	125	182	115	165	182	115	—	—	—	135	210	135	180	210	135
	2	50	145	196	135	203	198	135	203	302	200	160	239	180	230	239	180
	2 1/2	65	—	—	—	—	—	—	216	313	225	—	—	—	—	—	—
	3	80	—	—	—	—	—	—	241	356	250	—	—	—	—	—	—
	4	100	—	—	—	—	—	—	292	377	250	—	—	—	—	—	—
	5	125	—	—	—	—	—	—	356	460	300	—	—	—	—	—	—
6	150	—	—	—	—	—	—	406	524	350	—	—	—	—	—	—	
8	200	—	—	—	—	—	—	—	495	585	400	—	—	—	—	—	—
BODY		Ductile Iron				Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron		
BONNET		Ductile Iron				Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron		
STEM		Stainless Steel				Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC		Stainless Steel				Stainless Steel			Stainless Steel / Ductile Iron			Stainless Steel+HF			Stainless Steel+HF		

TYPE	GLOBE					GLOBE			LIFT CHECK			LIFT CHECK			LIFT CHECK		
Ductile Iron																	
FIG	150SPB					150SPDB			10SF			10SFBF			10SN		
PRESSURE	Class 150					Class 150			10K			10K			10K		
END CONNECTION	ASME B16.5					ASME B16.5			BS21 (JIS B0203)			JIS B2239			BS21 (JIS B0203)		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	108	122	80	108	127	70	65	39	—	85	39	—	70	50	—
	3/4	20	117	128	80	117	135	70	80	42	—	95	42	—	80	53	—
	1	25	127	146	100	127	155	90	90	48	—	110	48	—	90	61	—
	1 1/4	32	140	165	115	140	172	100	105	56	—	130	56	—	110	69	—
	1 1/2	40	165	179	115	165	193	115	120	65	—	150	65	—	120	75	—
	2	50	203	198	135	203	208	135	140	73	—	180	73	—	140	87	—
BODY	Ductile Iron					Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron		
BONNET	Ductile Iron					Ductile Iron			—			—			—		
CAP	—					—			Stainless Steel			Stainless Steel			Stainless Steel		
STEM	Stainless Steel					Stainless Steel			—			—			—		
DISC	Stainless Steel					G/F PTFE			Stainless Steel			Stainless Steel			Stainless Steel		
						Soft Seated disc											

TYPE	LIFT CHECK				LIFT CHECK				LIFT CHECK				LIFT CHECK				SWING CHECK			
Ductile Iron																				
FIG	10SNBF				16SF				16SFB				20SN				10SRBF			
PRESSURE	10K				16K				16K				20K				10K			
END CONNECTION	JIS B2239				BS21 (JIS B0203)				JIS B2239				BS21 (JIS B0203)				JIS B2239			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	108	50	—	70	50	—	108	50	—	78	56	—	—	—	—	—	—	—
	3/4	20	117	53	—	85	53	—	117	53	—	91	60	—	—	—	—	—	—	—
	1	25	127	61	—	95	61	—	127	61	—	105	68	—	—	—	—	—	—	—
	1 1/4	32	140	69	—	110	69	—	140	69	—	122	80	—	—	—	—	—	—	—
	1 1/2	40	165	75	—	125	75	—	165	75	—	135	85	—	165	115	—	—	—	—
	2	50	203	87	—	145	87	—	203	87	—	160	99	—	203	120	—	—	—	—
	2 1/2	65	—	—	—	—	—	—	—	—	—	—	—	—	216	130	—	—	—	—
	3	80	—	—	—	—	—	—	—	—	—	—	—	—	241	145	—	—	—	—
	4	100	—	—	—	—	—	—	—	—	—	—	—	—	292	160	—	—	—	—
	5	125	—	—	—	—	—	—	—	—	—	—	—	—	330	195	—	—	—	—
	6	150	—	—	—	—	—	—	—	—	—	—	—	—	356	215	—	—	—	—
	8	200	—	—	—	—	—	—	—	—	—	—	—	—	495	255	—	—	—	—
	10	250	—	—	—	—	—	—	—	—	—	—	—	—	622	310	—	—	—	—
	12	300	—	—	—	—	—	—	—	—	—	—	—	—	698	350	—	—	—	—
BODY	Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
CAP	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				—			
COVER	—				—				—				—				Ductile Iron			
HINGE PIN	—				—				—				—				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel+HF				Stainless Steel / Cast Steel			
SEAT	—				—				—				—				—			

TYPE	SWING CHECK				SWING CHECK				SWING CHECK			
Ductile Iron												
FIG	16SRB				20SOB				150SRB			
PRESSURE	16K				20K				Class 150			
END CONNECTION	JIS B2239				JIS B2239				ASME B16.5			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	D
	1 1/2	40	—	—	—	—	—	—	165	115	—	—
	2	50	203	120	—	267	135	—	203	120	—	—
	2 1/2	65	216	135	—	292	145	—	216	130	—	—
	3	80	241	145	—	318	160	—	241	145	—	—
	4	100	292	165	—	356	185	—	292	165	—	—
	5	125	330	200	—	400	220	—	330	200	—	—
	6	150	356	220	—	444	240	—	356	220	—	—
	8	200	495	265	—	533	275	—	495	260	—	—
	10	250	622	320	—	622	335	—	622	320	—	—
	12	300	698	360	—	711	370	—	698	360	—	—
BODY	Ductile Iron				Ductile Iron				Ductile Iron			
COVER	Ductile Iron				Ductile Iron				Ductile Iron			
HINGE PIN	Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel / Cast Steel				Stainless Steel / Cast Steel				Stainless Steel / Cast Steel			

TYPE	B-SERIES GATE				B-SERIES GATE				B-SERIES GATE				B-SERIES GATE				B-SERIES GATE			
Stainless Steel																				
FIG	UE				UEM				UEB				UEBM				UEL			
PRESSURE	10K				10K				10K				10K				10K			
END CONNECTION	BS21 (JIS B0203)				BS21 (JIS B0203)				JIS B2220				JIS B2220				BS21 (JIS B0203)			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
1/2	15	—	—	—	—	—	—	—	85	99	70	—	—	—	54	96	70	—	—	—
3/4	20	—	—	—	—	—	—	—	95	105	70	—	—	—	58	101	70	—	—	—
1	25	—	—	—	—	—	—	—	100	116	80	100	116	80	65	112	80	—	—	—
1 1/4	32	—	—	—	—	—	—	—	110	128	80	110	128	80	74	123	80	—	—	—
1 1/2	40	—	—	—	—	—	—	—	125	170	100	125	170	100	78	150	100	—	—	—
2	50	—	—	—	—	—	—	—	140	188	100	140	188	100	87	167	100	—	—	—
2 1/2	65	115	248	135	115	248	135	170	248	135	170	248	135	—	—	—	—	—	—	—
3	80	130	275	155	130	275	155	190	275	155	190	275	155	—	—	—	—	—	—	—
4	100	155	315	200	155	315	200	—	—	—	—	—	—	—	—	—	—	—	—	—
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
BONNET	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			

TYPE	B-SERIES GATE				B-SERIES GATE				A-SERIES GATE				A-SERIES GATE				A-SERIES GATE			
Stainless Steel																				
FIG	UELM				DKUELM				10UMA / 10UMAT				10UMAM / 10UMAMT				20UMA / 20UMAT			
PRESSURE	10K				PN16				10K				10K				20K			
END CONNECTION	BS21 (JIS B0203)				DIN 259				JIS B2220				JIS B2220				JIS B2220			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
1/2	15	54	96	70	54	96	70	108	201	90	108	201	90	140	209	100	—	—	—	—
3/4	20	58	101	70	58	101	70	117	211	90	117	211	90	152	220	100	—	—	—	—
1	25	65	112	80	65	112	80	127	224	100	127	224	100	165	239	100	—	—	—	—
1 1/4	32	74	123	80	74	123	80	140	240	100	140	240	100	—	—	—	—	—	—	—
1 1/2	40	78	150	100	78	150	100	165	284	140	165	284	140	190	294	140	—	—	—	—
2	50	87	167	100	87	167	100	178	336	160	178	336	160	216	355	180	—	—	—	—
2 1/2	65	—	—	—	—	—	—	190	374	180	190	374	180	241	404	180	—	—	—	—
3	80	—	—	—	—	—	—	203	444	200	203	444	200	283	472	225	—	—	—	—
4	100	—	—	—	—	—	—	229	523	225	229	523	225	305	560	250	—	—	—	—
5	125	—	—	—	—	—	—	254	606	250	254	606	250	381	626	300	—	—	—	—
6	150	—	—	—	—	—	—	267	711	250	267	711	250	403	753	350	—	—	—	—
8	200	—	—	—	—	—	—	292	924	300	292	924	300	419	968	400	—	—	—	—
10	250	—	—	—	—	—	—	330	1126	350	330	1126	350	457	1177	450	—	—	—	—
12	300	—	—	—	—	—	—	356	1336	400	356	1336	400	502	1378	500	—	—	—	—
14	350	—	—	—	—	—	—	381	1491	450	381	1491	450	562	1590	600	—	—	—	—
16	400	—	—	—	—	—	—	406	1692	600	406	1692	600	638	1810	600	—	—	—	—
18	450	—	—	—	—	—	—	432	1891	600	432	1891	600	714	1980	680	—	—	—	—
20	500	—	—	—	—	—	—	457	2102	680	457	2102	680	791	2190	760	—	—	—	—
24	600	—	—	—	—	—	—	508	2463	760	508	2463	760	914	2580	910	—	—	—	—
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
BONNET	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
									Fig. 10UMAT : Gland Packing / PTFE				Fig. 10UMAMT : Gland Packing / PTFE				Fig. 20UMAT : Gland Packing / PTFE			

TYPE	A-SERIES GATE					A-SERIES GATE					A-SERIES GATE					A-SERIES GATE					A-SERIES GATE					
Stainless Steel																										
FIG	20UMAM / 20UMAMT					150UMA / 150UMAT					150UMAM / 150UMAMT					300UMA					300UMAM					
PRESSURE	20K					Class 150					Class 150					Class 300					Class 300					
END CONNECTION	JIS B2220					ASME B16.5					ASME B16.5					ASME B16.5					ASME B16.5					
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	140	209	100	108	201	90	108	201	90	140	209	100	140	209	100	140	209	100	140	209	100	140	209	100
	3/4	20	152	220	100	117	211	90	117	211	90	152	220	100	152	220	100	152	220	100	152	220	100	152	220	100
	1	25	165	239	100	127	224	100	127	224	100	165	239	100	165	239	100	165	239	100	165	239	100	165	239	100
	1 1/2	40	190	294	140	165	284	140	165	284	140	190	294	140	190	294	140	190	294	140	190	294	140	190	294	140
	2	50	216	355	180	178	336	160	178	336	160	216	355	180	216	355	180	216	355	180	216	355	180	216	355	180
	2 1/2	65	241	404	180	190	374	180	190	374	180	241	404	180	241	404	180	241	404	180	241	404	180	241	404	180
	3	80	283	472	225	203	444	200	203	444	200	283	472	225	283	472	225	283	472	225	283	472	225	283	472	225
	4	100	305	560	250	229	523	225	229	523	225	305	560	250	305	560	250	305	560	250	305	560	250	305	560	250
	5	125	381	626	300	254	606	250	254	606	250	381	626	300	381	626	300	381	626	300	381	626	300	381	626	300
	6	150	403	753	350	267	711	250	267	711	250	403	753	350	403	753	350	403	753	350	403	753	350	403	753	350
	8	200	419	968	400	292	924	300	292	924	300	419	968	400	419	968	400	419	968	400	419	968	400	419	968	400
	10	250	457	1177	450	330	1126	350	330	1126	350	457	1177	450	457	1177	450	457	1177	450	457	1177	450	457	1177	450
	12	300	502	1378	500	356	1336	400	356	1336	400	502	1378	500	502	1378	500	502	1378	500	502	1378	500	502	1378	500
	14	350	762	1590	600	381	1486	450	381	1486	450	762	1590	600	762	1590	600	762	1590	600	762	1590	600	762	1590	600
	16	400	838	1810	600	406	1690	600	406	1690	600	838	1810	600	838	1810	600	838	1810	600	838	1810	600	838	1810	600
18	450	914	1980	680	432	1890	600	432	1890	600	914	1980	680	914	1980	680	914	1980	680	914	1980	680	914	1980	680	
20	500	991	2190	760	457	2100	680	457	2100	680	991	2190	760	991	2190	760	991	2190	760	991	2190	760	991	2190	760	
24	600	1143	2580	910	508	2460	760	508	2460	760	1143	2580	910	1143	2580	910	1143	2580	910	1143	2580	910	1143	2580	910	
BODY	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					
BONNET	Stainless Steel					Stainless Steel					—					Stainless Steel					Stainless Steel					
COVER	—					—					Stainless Steel					—					—					
STEM	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					
DISC	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					
	Fig. 20UMAMT : Gland Packing / PTFE					Fig. 150UMAT : Gland Packing / PTFE					Fig. 150UMAMT : Gland Packing / PTFE															

TYPE		A-SERIES GATE					A-SERIES GATE				
Stainless Steel											
FIG		600UMA					600UMAM				
PRESSURE		Class 600					Class 600				
END CONNECTION		ASME B16.5					ASME B16.5				
DIMENSIONS		inch	mm	L	H	D	L	H	D		
	1/2	15	165	210	100	165	210	100			
	3/4	20	190	224	100	190	224	100			
	1	25	216	251	140	216	251	140			
	1 1/2	40	241	333	180	241	333	180			
	2	50	292	451	200	292	451	200			
	2 1/2	65	330	482	225	330	482	225			
	3	80	356	545	250	356	545	250			
	4	100	432	676	350	432	676	350			
	6	150	559	904	450	559	904	450			
	8	200	660	1128	500	660	1128	500			
	10	250	787	1329	600	787	1329	600			
	12	300	838	1521	680	838	1521	680			
BODY		Stainless Steel					Stainless Steel				
BONNET		Stainless Steel					Stainless Steel				
STEM		Stainless Steel					Stainless Steel				
DISC		Stainless Steel					Stainless Steel				

TYPE		AJ-SERIES GATE				AJ-SERIES GATE				AJ-SERIES GATE				AJ-SERIES GATE				B-SERIES GLOBE			
Stainless Steel																					
FIG		10UMAJ				20UMAJ				150UMAJ				300UMAJ				UAB			
PRESSURE		10K				20K				Class 150				Class 300				5K			
END CONNECTION		JIS B2220				JIS B2220				ASME B16.5				ASME B16.5				JIS B2220			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D				
	3/8	10	—	—	—	—	—	—	—	—	—	—	—	—	73	106	70				
	1/2	15	169	204	100	173	199	100	165	204	100	178	199	100	85	106	70				
	3/4	20	169	214	100	173	213	100	165	214	100	178	213	100	95	108	70				
	1	25	177	233	100	181	232	100	177	233	100	190	232	100	108	119	80				
	1 1/4	32	—	—	—	—	—	—	—	—	—	—	—	—	120	142	90				
	1 1/2	40	188	286	140	192	283	140	187	286	140	203	283	140	135	155	90				
	2	50	201	336	160	270	353	180	203	336	160	283	353	180	155	186	115				
	3	80	217	444	200	289	470	225	229	444	200	305	470	225	—	—	—				
	4	100	260	523	225	386	560	250	267	523	225	403	560	250	—	—	—				
6	150	279	710	250	434	753	350	292	710	250	457	753	350	—	—	—					
BODY		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
BONNET		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
		Full Jacketed				Full Jacketed				Full Jacketed				Full Jacketed							

TYPE			B-SERIES GLOBE					B-SERIES GLOBE					B-SERIES GLOBE					B-SERIES GLOBE					B-SERIES GLOBE				
Stainless Steel																											
FIG			UCL					UCB					UD					UDM					UDB				
PRESSURE			10K					10K					10K					10K					10K				
END CONNECTION			BS21 (JIS B0203)					JIS B2220					BS21 (JIS B0203)					BS21 (JIS B0203)					JIS B2220				
DIMENSIONS		inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D			
	1/4	8	44	68	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	3/8	10	48	68	55	73	106	70	55	109	60	55	109	60	55	109	60	—	—	—	—	—	—	—			
	1/2	15	52	68	55	85	106	70	65	112	60	65	112	60	65	112	60	85	112	60	85	112	60	85			
	3/4	20	60	93	60	95	108	70	80	113	70	80	113	70	80	113	70	95	113	70	95	113	70	95			
	1	25	72	100	70	108	119	80	90	143	90	90	143	90	90	143	90	110	143	90	110	143	90	110			
	1 1/4	32	80	122	80	120	142	90	105	150	90	105	150	90	105	150	90	130	150	90	130	150	90	130			
	1 1/2	40	90	138	90	135	155	90	120	171	100	120	171	100	120	171	100	150	171	100	150	171	100	150			
	2	50	100	153	100	155	186	115	140	189	115	140	189	115	140	189	115	180	189	115	180	189	115	180			
	2 1/2	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	210	252	180	210	252	180	210		
3	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	240	277	225	240	277	225	240			
BODY			Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
BONNET			Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
STEM			Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC			Stainless Steel					Stainless Steel					PTFE					PTFE					PTFE				
													Soft-Seated disc					Soft-Seated disc					Soft-Seated disc				

TYPE		B-SERIES GLOBE					B-SERIES GLOBE			B-SERIES GLOBE			B-SERIES GLOBE			B-SERIES GLOBE		
Stainless Steel																		
FIG		UDBM					UJ			UJM			UJB			UJBM		
PRESSURE		10K					10K			10K			10K			10K		
END CONNECTION		JIS B2220					BS21 (JIS B0203)			BS21 (JIS B0203)			JIS B2220			JIS B2220		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	
	3/8	10	—	—	—	55	109	60	55	109	60	85	109	60	85	109	60	
	1/2	15	85	112	60	65	111	60	65	111	60	85	111	60	85	111	60	
	3/4	20	95	113	70	80	112	70	80	112	70	95	112	70	95	112	70	
	1	25	110	143	90	90	142	90	90	142	90	110	142	90	110	142	90	
	1 1/4	32	130	150	90	105	150	90	105	150	90	130	150	90	130	150	90	
	1 1/2	40	150	171	100	120	171	100	120	171	100	150	171	100	150	171	100	
	2	50	180	189	115	140	189	115	140	189	115	180	189	115	180	189	115	
	2 1/2	65	210	252	180	180	253	180	180	253	180	210	253	180	210	253	180	
	3	80	240	277	225	200	280	225	200	280	225	240	280	225	240	280	225	
BODY		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
BONNET		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
STEM		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC		PTFE					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
		Soft-Seated disc																

TYPE	A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE			
Stainless Steel																				
FIG	10UPA / G-10UPA / 10UPAT				10UPAM / G-10UPAM / 10UPAMT				20UPA / G-20UPA / 20UPAT				20UPAM / G-20UPAM / 20UPAMT				150UPA / G-150UPA / 150UPAT			
PRESSURE	10K				10K				20K				20K				Class 150			
END CONNECTION	JIS B2220				JIS B2220				JIS B2220				JIS B2220				ASME B16.5			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	108	166	90	108	166	90	152	184	100	152	184	100	108	166	90	108	166	90
	3/4	20	117	168	90	117	168	90	178	182	100	178	182	100	117	168	90	117	168	90
	1	25	127	173	100	127	173	100	203	185	100	203	185	100	127	173	100	127	173	100
	1 1/4	32	140	191	120	140	191	120	—	—	—	—	—	—	—	—	—	—	—	—
	1 1/2	40	165	203	140	165	203	140	229	234	160	229	234	160	165	203	140	165	203	140
	2	50	203	234	160	203	234	160	267	286	180	267	286	180	203	234	160	203	234	160
	2 1/2	65	216	247	180	216	247	180	292	295	200	292	295	200	216	247	180	216	247	180
	3	80	241	292	200	241	292	200	318	341	250	318	341	250	241	292	200	241	292	200
	4	100	292	324	225	292	324	225	356	396	300	356	396	300	292	324	225	292	324	225
	5	125	356	381	250	356	381	250	400	492	350	400	492	350	356	381	250	356	381	250
	6	150	406	452	350	406	452	350	444	563	400	444	563	400	406	452	350	406	452	350
	8	200	495	556	400	495	556	400	559	874	500	559	874	500	495	556	400	495	556	400
	10	250	622	923	500	622	923	500	622	1048	600	622	1048	600	622	923	500	622	923	500
	12	300	698	1013	500	698	1013	500	—	—	—	—	—	—	698	1013	500	698	1013	500
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
BONNET	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
	Fig. 10UPAT : Gland Packing / PTFE SIZE.10 & 12 Gear operation type				Fig. 10UPAMT : Gland Packing / PTFE SIZE.10 & 12 Gear operation type				Fig. 20UPAT : Gland Packing / PTFE SIZE.8 & 10 Gear operation type				Fig. 20UPAMT : Gland Packing / PTFE SIZE.8 & 10 Gear operation type				Fig. 150UPAT : Gland Packing / PTFE SIZE.10 & 12 Gear operation type			

TYPE	A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE				A-SERIES GLOBE			
Stainless Steel																				
FIG	150UPA / G-150UPA / 150UPAMT				300UPA / G-300UPA				300UPAM / G-300UPAM				600UPA				600UPAM			
PRESSURE	Class 150				Class 300				Class 300				Class 600				Class 600			
END CONNECTION	ASME B16.5				ASME B16.5				ASME B16.5				ASME B16.5				ASME B16.5			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	108	166	90	152	184	100	152	184	100	165	212	120	165	212	120	165	212	120
	3/4	20	117	168	90	178	182	100	178	182	100	190	209	120	190	209	120	190	209	120
	1	25	127	173	100	203	185	100	203	185	100	216	245	160	216	245	160	216	245	160
	1 1/2	40	165	203	140	229	234	160	229	234	160	241	282	200	241	282	200	241	282	200
	2	50	203	234	160	267	286	180	267	286	180	292	373	225	292	373	225	292	373	225
	2 1/2	65	216	247	180	292	295	200	292	295	200	330	411	250	330	411	250	330	411	250
	3	80	241	292	200	318	341	250	318	341	250	356	491	350	356	491	350	356	491	350
	4	100	292	324	225	356	396	300	356	396	300	432	584	400	432	584	400	432	584	400
	5	125	356	381	250	400	492	350	400	492	350	—	—	—	—	—	—	—	—	—
	6	150	406	452	350	444	563	400	444	563	400	559	742	600	559	742	600	559	742	600
	8	200	495	556	400	559	874	500	559	874	500	660	875	600	660	875	600	660	875	600
	10	250	622	923	500	622	1048	600	622	1048	600	—	—	—	—	—	—	—	—	—
	12	300	698	1013	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
BONNET	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
	Fig. 150UPAMT : Gland Packing / PTFE SIZE.10 & 12 Gear operation type				SIZE.8 & 10 Gear operation type				SIZE.8 & 10 Gear operation type				Stainless Steel				Stainless Steel			

TYPE		AJ-SERIES GLOBE					AJ-SERIES GLOBE			AJ-SERIES GLOBE			AJ-SERIES GLOBE			A-SERIES GLOBE		
Stainless Steel																		
FIG		10UPAJ					20UPAJ			150UPAJ			300UPAJ			10UPAW		
PRESSURE		10K					20K			Class 150			Class 300			10K		
END CONNECTION		JIS B2220					JIS B2220			ASME B16.5			ASME B16.5			JIS B2220		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	
	1/2	15	156	186	100	160	186	100	152	186	100	165	186	100	108	166	90	
	3/4	20	156	186	100	160	186	100	152	186	100	165	186	100	117	166	90	
	1	25	190	187	100	194	187	100	190	187	100	203	187	100	127	169	100	
	1 1/2	40	214	236	160	218	236	160	213	236	160	229	236	160	165	201	140	
	2	50	239	237	160	254	289	180	241	237	160	267	289	180	203	231	160	
	2 1/2	65	—	—	—	—	—	—	—	—	—	—	—	—	216	244	180	
	3	80	280	293	200	302	343	250	292	293	200	318	343	250	241	283	200	
	4	100	349	326	225	339	398	300	356	326	225	356	398	300	292	363	225	
	5	125	—	—	—	—	—	—	—	—	—	—	—	—	356	425	250	
	6	150	—	—	—	—	—	—	—	—	—	—	—	—	406	482	350	
BODY		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
BONNET		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
STEM		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
		Full Jacketed					Full Jacketed			Full Jacketed			Full Jacketed			Bellows seal globe valve		

TYPE	A-SERIES GLOBE					A-SERIES GLOBE			A-SERIES GLOBE			A-SERIES GLOBE			A-SERIES GLOBE		
Stainless Steel																	
FIG	10UPAWM					20UPAW			20UPAWM			150UPAW			150UPAWM		
PRESSURE	10K					20K			20K			Class 150			Class 150		
END CONNECTION	JIS B2220					JIS B2220			JIS B2220			ASME B16.5			ASME B16.5		
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	108	166	90	152	184	100	152	184	100	108	166	90	108	166	90
	3/4	20	117	166	90	178	184	100	178	184	100	117	166	90	117	166	90
	1	25	127	169	100	203	185	100	203	185	100	127	169	100	127	169	100
	1 1/2	40	165	201	140	229	234	160	229	234	160	165	201	140	165	201	140
	2	50	203	231	160	267	287	180	267	287	180	203	231	160	203	231	160
	2 1/2	65	216	244	180	292	293	200	292	293	200	216	244	180	216	244	180
	3	80	241	283	200	318	402	250	318	402	250	241	283	200	241	283	200
	4	100	292	363	225	356	453	300	356	453	300	292	363	225	292	363	225
	5	125	356	425	250	400	538	350	400	538	350	356	425	250	356	425	250
6	150	406	482	350	444	606	400	444	606	400	406	482	350	406	482	350	
BODY	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
BONNET	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
STEM	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
	Bellows seal globe valve					Bellows seal globe valve			Bellows seal globe valve			Bellows seal globe valve			Bellows seal globe valve		

TYPE			A-SERIES GLOBE			A-SERIES GLOBE			B-SERIES LIFT CHECK			B-SERIES SWING CHECK			B-SERIES SWING CHECK			
Stainless Steel																		
FIG			300UPAW			300UPAWM			UN			UO			UOM			
PRESSURE			Class 300			Class 300			10K			10K			10K			
END CONNECTION			ASME B16.5			ASME B16.5			BS21 (JIS B0203)			BS21 (JIS B0203)			BS21 (JIS B0203)			
DIMENSIONS		inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	3/8	10	—	—	—	—	—	—	—	55	50	—	—	—	—	—	—	—
	1/2	15	152	184	100	152	184	100	65	53	—	65	45	—	65	45	—	
	3/4	20	178	184	100	178	184	100	80	54	—	80	55	—	80	55	—	
	1	25	203	185	100	203	185	100	90	62	—	90	61	—	90	61	—	
	1¼	32	—	—	—	—	—	—	105	66	—	105	71	—	105	71	—	
	1½	40	229	234	160	229	234	160	120	76	—	120	72	—	120	72	—	
	2	50	267	287	180	257	257	180	140	85	—	140	81	—	140	81	—	
	2½	65	292	293	200	292	293	200	—	—	—	180	93	—	180	93	—	
	3	80	318	402	250	318	402	250	—	—	—	200	104	—	200	104	—	
	4	100	356	453	300	356	453	300	—	—	—	—	—	—	—	—	—	
	5	125	400	538	350	400	538	350	—	—	—	—	—	—	—	—	—	
	6	150	444	606	400	444	600	400	—	—	—	—	—	—	—	—	—	
BODY			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			
CAP			—			—			Stainless Steel			Stainless Steel			Stainless Steel			
BONNET			Stainless Steel			Stainless Steel			—			—			—			
STEM			Stainless Steel			Stainless Steel			—			—			—			
DISC			Stainless Steel			Stainless Steel			—			Stainless Steel			Stainless Steel			
HINGE PIN			—			—			Stainless Steel			Stainless Steel			Stainless Steel			
			Bellows seal globe valve			Bellows seal globe valve												

TYPE		B-SERIES SWING CHECK			B-SERIES SWING CHECK			A-SERIES LIFT CHECK			A-SERIES LIFT CHECK			A-SERIES LIFT CHECK			
Stainless Steel																	
FIG		UOB			UOBM			10UNA / 10UNAT			10UNAM / 10UNAMT			20UNA / 20UNAT			
PRESSURE		10K			10K			10K			10K			20K			
END CONNECTION		JIS B2220			JIS B2220			JIS B2220			JIS B2220			JIS B2220			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/2	15	85	45	—	85	45	—	108	74	—	108	74	—	152	80	—
	3/4	20	95	55	—	95	55	—	117	76	—	117	76	—	178	78	—
	1	25	110	61	—	110	61	—	127	76	—	127	76	—	203	79	—
	1¼	32	130	71	—	130	71	—	140	84	—	140	84	—	—	—	—
	1½	40	150	72	—	150	72	—	165	86	—	165	86	—	229	97	—
	2	50	180	81	—	180	81	—	—	—	—	—	—	—	—	—	—
	2½	65	210	93	—	210	93	—	—	—	—	—	—	—	—	—	—
	3	80	240	104	—	240	104	—	—	—	—	—	—	—	—	—	—
BODY		Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			
CAP		Stainless Steel			Stainless Steel			—			—			—			
COVER		—			—			Stainless Steel			Stainless Steel			Stainless Steel			
DISC		Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			
HINGE PIN		Stainless Steel			Stainless Steel			—			—			—			
								Fig. 10UNAT : Gasket / PTFE			Fig. 10UNAMT : Gasket / PTFE			Fig. 20UNAT : Gasket / PTFE			

TYPE	A-SERIES LIFT CHECK					A-SERIES LIFT CHECK					A-SERIES LIFT CHECK					A-SERIES LIFT CHECK					A-SERIES LIFT CHECK				
Stainless Steel																									
FIG	20UNAM / 20UNAMT					150UNA / 150UNAT					150UNAM					300UNA					300UNAM				
PRESSURE	20K					Class 150					Class 150					Class 300					Class 300				
END CONNECTION	JIS B2220					ASME B16.5					ASME B16.5					ASME B16.5					ASME B16.5				
DIMENS/ONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D					
	1/2	15	152	80	—	108	74	—	108	74	—	152	80	—	152	80	—	152	80	—					
	3/4	20	178	78	—	117	76	—	117	76	—	178	78	—	178	78	—	178	78	—					
	1	25	203	79	—	127	76	—	127	76	—	203	79	—	203	79	—	203	79	—					
	1 1/2	40	229	97	—	165	86	—	165	86	—	229	97	—	229	97	—	229	97	—					
BODY	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
COVER	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
	Fig. 20UNAMT : Gasket / PTFE					Fig. 150UNAT : Gasket / PTFE					Fig. 10UOAT : Gasket / PTFE														

TYPE	A-SERIES SWING CHECK					A-SERIES SWING CHECK					A-SERIES SWING CHECK					A-SERIES SWING CHECK					A-SERIES SWING CHECK				
Stainless Steel																									
FIG	10UOA / 10UOAT					10UOAM / 10UOAMT					20UOA / 20UOAT					20UOAM / 20UOAMT					150UOA / 150UOAT				
PRESSURE	10K					10K					20K					20K					Class 150				
END CONNECTION	JIS B2220					JIS B2220					JIS B2220					JIS B2220					ASME B16.5				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D					
	1½	40	165	111	—	165	111	—	241	121	—	241	121	—	165	111	—								
	2	50	203	121	—	203	121	—	267	143	—	267	143	—	203	121	—								
	2½	65	216	134	—	216	134	—	292	163	—	292	163	—	216	134	—								
	3	80	241	148	—	241	148	—	318	178	—	318	178	—	241	148	—								
	4	100	292	162	—	292	162	—	356	201	—	356	201	—	292	162	—								
	5	125	330	192	—	330	192	—	400	231	—	400	231	—	330	192	—								
	6	150	356	217	—	356	217	—	444	259	—	444	259	—	356	217	—								
	8	200	495	264	—	495	264	—	533	292	—	533	292	—	495	264	—								
	10	250	622	287	—	622	287	—	622	356	—	622	356	—	622	287	—								
	12	300	698	315	—	698	315	—	711	373	—	711	373	—	698	315	—								
	14	350	787	363	—	787	363	—	—	—	—	—	—	—	787	363	—								
	16	400	864	407	—	864	407	—	—	—	—	—	—	—	864	407	—								
BODY	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
COVER	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
HINGE PIN	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
	Fig. 10UOAT : Gasket / PTFE					Fig. 10UOAMT : Gasket / PTFE					Fig. 20UOAT : Gasket / PTFE					Fig. 10UOAMT : Gasket / PTFE					Fig. 20UOAT : Gasket / PTFE				

TYPE		A-SERIES SWING CHECK				A-SERIES SWING CHECK				A-SERIES SWING CHECK				A-SERIES SWING CHECK				A-SERIES SWING CHECK			
Stainless Steel																					
FIG		150UOAM / 150UOAMT				300UOA				300UOAM				600UOA				600UOAM			
PRESSURE		Class 150				Class 300				Class 300				Class 600				Class 600			
END CONNECTION		ASME B16.5				ASME B16.5				ASME B16.5				ASME B16.5				ASME B16.5			
DIMENSIONS		inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D			
	1/2	15	—	—	—	—	—	—	—	—	—	—	165	90	—	165	90	—			
	3/4	20	—	—	—	—	—	—	—	—	—	—	190	96	—	190	96	—			
	1	25	—	—	—	—	—	—	—	—	—	—	216	109	—	216	109	—			
	1 1/2	40	165	111	—	241	121	—	241	121	—	241	126	—	241	126	—				
	2	50	203	121	—	267	143	—	267	143	—	292	202	—	292	202	—				
	2 1/2	65	216	134	—	292	163	—	292	163	—	330	213	—	330	213	—				
	3	80	241	148	—	318	178	—	318	178	—	356	239	—	356	239	—				
	4	100	292	162	—	356	201	—	356	201	—	432	279	—	432	279	—				
	5	125	330	192	—	400	231	—	400	231	—	—	—	—	—	—	—				
	6	150	356	217	—	444	259	—	444	259	—	559	339	—	559	339	—				
	8	200	495	264	—	533	292	—	533	292	—	660	414	—	660	414	—				
	10	250	622	287	—	622	356	—	622	356	—	787	430	—	787	430	—				
	12	300	698	315	—	711	373	—	711	373	—	838	477	—	838	477	—				
	14	350	787	363	—	—	—	—	—	—	—	—	—	—	—	—	—				
	16	400	864	407	—	—	—	—	—	—	—	—	—	—	—	—	—				
BODY		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
COVER		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
HINGE PIN		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
		Fig. 150UOAMT : Gasket / PTFE																			

TYPE			WAFER CHECK				WAFER CHECK			
Stainless Steel										
FIG			10UW				10UWS			
PRESSURE			10K				10K			
END CONNECTION			Wafer Type				Wafer Type			
DIMENSIONS			inch	mm	L	H	D	L	H	D
	2	50	60	147	60	60	147	60		
	2½	65	67	155	60	67	155	60		
	3	80	73	163	60	73	163	60		
	4	100	73	175	60	73	175	60		
	5	125	89	189	70	89	189	70		
	6	150	98	202	70	98	202	70		
	8	200	127	229	70	127	229	70		
	10	250	146	280	90	146	280	90		
	12	300	181	307	90	181	307	90		
BODY			Stainless Steel+NBR				Stainless Steel			
BONNET			Stainless Steel				Stainless Steel			
STEM			Stainless Steel				Stainless Steel			
DISC			Stainless Steel				Stainless Steel			
HINGE PIN			Stainless Steel				Stainless Steel			

TYPE	AJ-SERIES LIFT CHECK					AJ-SERIES LIFT CHECK					AJ-SERIES LIFT CHECK					AJ-SERIES LIFT CHECK					AJ-SERIES LIFT CHECK				
Stainless Steel																									
FIG	10UNAJ					10UNAJM					20UNAJ					150UNAJ					300UNAJ				
PRESSURE	10K					10K					20K					Class 150					Class 300				
END CONNECTION	JIS B2220					JIS B2220					JIS B2220					ASME B16.5					ASME B16.5				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D								
	1/2	15	156	78	—	156	78	—	160	78	—	152	78	—	165	78	—								
	3/4	20	156	76	—	156	76	—	160	76	—	152	76	—	165	76	—								
	1	25	190	77	—	190	77	—	194	77	—	190	77	—	203	77	—								
	1 1/2	40	214	102	—	214	102	—	218	102	—	213	102	—	229	102	—								
BODY	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
COVER	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
	Full Jacketed					Full Jacketed					Full Jacketed					Full Jacketed					Full Jacketed				

TYPE	AJ-SERIES SWING CHECK					AJ-SERIES SWING CHECK					AJ-SERIES SWING CHECK					AJ-SERIES SWING CHECK				
Stainless Steel																				
FIG	10UOAJ					20UOAJ					150UOAJ					300UOAJ				
PRESSURE	10K					20K					Class 150					Class 300				
END CONNECTION	JIS B2220					JIS B2220					ASME B16.5					ASME B16.5				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	2	50	239	125	—	254	150	—	241	125	—	267	150	—	267	150	—	267	150	—
	3	80	280	152	—	314	179	—	292	152	—	330	179	—	330	179	—	330	179	—
	4	100	349	169	—	383	203	—	356	169	—	400	203	—	400	203	—	400	203	—
	6	150	393	219	—	421	262	—	406	219	—	444	262	—	444	262	—	444	262	—
BODY	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
COVER	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
HINGE PIN	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
	Full Jacketed					Full Jacketed					Full Jacketed					Full Jacketed				

TYPE			BALL CHECK			BALL CHECK			B-SERIES Y TYPE STRAINER			B-SERIES Y TYPE STRAINER			B-SERIES Y TYPE STRAINER		
Stainless Steel																	
FIG			10UFT			10UFTE			UY			UYM			UYB		
PRESSURE			10K			10K			20K			20K			10K		
END CONNECTION			JIS B2220			JIS B2220			BS21 (JIS B0203)			BS21 (JIS B0203)			JIS B2220		
DIMENSIONS			inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	
	1/4	8	—	—	—	—	—	—	65	50	—	65	50	—	—	—	—
	3/8	10	—	—	—	—	—	—	70	50	—	70	50	—	110	50	—
	1/2	15	—	—	—	—	—	—	85	60	—	85	60	—	120	58	—
	3/4	20	—	—	—	—	—	—	100	65	—	100	65	—	130	66	—
	1	25	—	—	—	—	—	—	115	77	—	115	77	—	150	78	—
	1 1/4	32	—	—	—	—	—	—	135	90	—	135	90	—	170	93	—
	1 1/2	40	190	87	—	—	—	—	150	100	—	150	100	—	190	104	—
	2	50	200	100.5	—	200	97	—	180	115	—	180	115	—	220	122	—
	2 1/2	65	220	123.5	—	220	120.5	—	220	150	—	220	150	—	—	—	—
	3	80	240	150	—	240	146	—	250	193	—	250	193	—	—	—	—
4	100	290	187	—	290	187	—	—	—	—	—	—	—	—	—	—	
6	150	410	275	—	410	275	—	—	—	—	—	—	—	—	—	—	
8	200	—	—	—	500	366	—	—	—	—	—	—	—	—	—	—	
BODY			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
COVER			Stainless Steel			Stainless Steel			—			—			—		
CAP			—			—			Stainless Steel			Stainless Steel			Stainless Steel		
DISC			NBR			NBR			—			—			—		
SCREEN			—			—			Stainless Steel			Stainless Steel			Stainless Steel		

TYPE		B-SERIES Y TYPE STRAINER				A-SERIES Y TYPE STRAINER			A-SERIES Y TYPE STRAINER			A-SERIES Y TYPE STRAINER			
Stainless Steel															
FIG		UYBM				10UYA			10UYAM			20UYA			
PRESSURE		10K				10K			10K			20K			
END CONNECTION		JIS B2220				JIS B2220			JIS B2220			JIS B2220			
DIMENSIONS		inch	mm	L	H	D	L	H	D	L	H	D	L	H	D
	3/8	10	110	50	—	—	—	—	—	—	—	—	—	—	—
	1/2	15	120	58	—	—	—	—	—	—	—	—	160	70	—
	3/4	20	130	66	—	—	—	—	—	—	—	—	160	80	—
	1	25	150	78	—	—	—	—	—	—	—	—	190	92	—
	1 1/4	32	170	93	—	—	—	—	—	—	—	—	—	—	—
	1 1/2	40	190	104	—	—	—	—	—	—	—	—	240	125	—
	2	50	220	122	—	—	—	—	—	—	—	—	250	150	—
	2 1/2	65	—	—	—	270	160	—	270	160	—	—	300	160	—
	3	80	—	—	—	290	197	—	290	197	—	—	320	197	—
	4	100	—	—	—	350	233	—	350	233	—	—	380	246	—
	5	125	—	—	—	390	267	—	390	267	—	—	—	—	—
	6	150	—	—	—	440	320	—	440	320	—	—	550	342	—
8	200	—	—	—	540	380	—	540	380	—	—	600	430	—	
10	250	—	—	—	760	538	—	760	538	—	—	760	538	—	
12	300	—	—	—	870	635	—	870	635	—	—	870	635	—	
BODY		Stainless Steel				Stainless Steel			Stainless Steel			Stainless Steel			
CAP		Stainless Steel				—			—			—			
COVER		—				Stainless Steel			Stainless Steel			Stainless Steel			
SCREEN		Stainless Steel				Stainless Steel			Stainless Steel			Stainless Steel			

TYPE	NEEDLE				NEEDLE				NEEDLE				NEEDLE				NEEDLE			
mm., Series																				
FIG	UN3-AP-				UN3-BP-				UN3-CP-				UN3-DP-				UN3-EP-			
PRESSURE	30K				30K				30K				30K				30K			
END CONNECTION	BS21 (JIS B0203)				BS21 (JIS B0203)				COUPLE LOK				COUPLE LOK				JIS B0203 / COUPLE LOK			
DIMENSIONS	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	D
	6	40	59	40	15	59	40	60.8	59	40	30.4	59	40	55.4	59	40	55.4	59	40	40
	8	40	59	40	15	59	40	60.8	59	40	30.4	59	40	55.4	59	40	55.4	59	40	40
	10	45	64	40	18	64	40	62.4	64	40	—	—	—	56.2	64	40	56.2	64	40	40
	10	—	—	—	—	—	—	—	—	—	—	—	—	56.2	64	40	56.2	64	40	40
	12	55	79	50	—	—	—	70.2	64	40	—	—	—	60.1	64	40	60.1	64	40	40
	12	—	—	—	—	—	—	—	—	—	—	—	—	60.1	64	40	60.1	64	40	40
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
FIG	Rc1/8": UN3-AP-1 Rc1/4": UN3-AP-2 Rc3/8": UN3-AP-3 Rc1/2": UN3-AP-4				Rc1/8": UN3-BP-1 Rc1/4": UN3-BP-2 Rc3/8": UN3-BP-3				6mm : UN3-CP-6 8mm : UN3-CP-8 10mm : UN3-CP-10 12mm : UN3-CP-12				6mm : UN3-DP-6 8mm : UN3-DP-8				6mm x R1/8" : UN3-EP-6-2 8mm x R1/8" : UN3-EP-8-2 10mm x R1/8" : UN3-EP-10-2 10mm x R3/8" : UN3-EP-10-3 12mm x R1/8" : UN3-EP-12-2 12mm x R3/8" : UN3-EP-12-3			

TYPE	NEEDLE				NEEDLE				NEEDLE				NEEDLE			
mm., Series																
FIG	UN3-FP-				UN26-AP-				UN26-CP-				UN26-SP-			
PRESSURE	30K				260K				260K				260K			
END CONNECTION	JIS B0203 / COUPLE LOK				BS21 (JIS B0203)				COUPLE LOK				JIS B2316			
DIMENSIONS	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	6	30.4	59	40	48	69	40	64.8	69	40	60	69	40	60	69	40
	8	30.4	59	40	48	69	40	64.8	69	40	60	69	40	60	69	40
	10	31.2	64	40	55	81	70	68.4	83	50	65	81	70	65	81	70
	12	35.1	64	40	—	—	—	74.7	83	50	—	—	—	—	—	—
	15	—	—	—	60	86	70	—	—	—	75	86	70	—	—	—
	20	—	—	—	70	99	85	—	—	—	85	99	85	—	—	—
	25	—	—	—	85	119	85	—	—	—	100	119	85	—	—	—
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
FIG	6mm x R1/8" : UN3-FP-6-2 8mm x R1/8" : UN3-FP-8-2 10mm x R1/8" : UN3-FP-10-2 10mm x R3/8" : UN3-FP-10-3 12mm x R1/8" : UN3-FP-12-2 12mm x R3/8" : UN3-FP-12-3				Rc1/8" : UN26-AP-1 Rc1/4" : UN26-AP-2 Rc3/8" : UN26-AP-3 Rc1/2" : UN26-AP-4 Rc3/4" : UN26-AP-6 Rc1" : UN26-AP-8				6mm : UN26-CP-6 8mm : UN26-CP-8 10mm : UN26-CP-10 12mm : UN26-CP-12				1/8" : UN26-SP-1 1/4" : UN26-SP-2 3/8" : UN26-SP-3 1/2" : UN26-SP-4 3/4" : UN26-SP-6 1" : UN26-SP-8			

TYPE	NEEDLE				NEEDLE				NEEDLE				NEEDLE				NEEDLE			
Inch Series																				
FIG	UN3-CP-				UN3-DP-				UN3-EP-				UN3-FP-				UN26-CP-			
PRESSURE	30K				30K				30K				30K				260K			
END CONNECTION	COUPLE LOK				COUPLE LOK				JIS B0203 / COUPLE LOK				JIS B0203 / COUPLE LOK				COUPLE LOK			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1/4	8	60.8	59	40	30.4	59	40	55.4	59	40	30.4	59	40	64.8	69	40	64.8	69	40
	3/8	10	62.4	64	40	—	—	—	56.2	64	40	31.2	64	40	68.4	83	50	68.4	83	50
	1/2	15	70.2	64	40	—	—	—	60.1	64	40	35.1	64	40	74.7	83	50	74.7	83	50
BODY	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
FIG	1/4": UN3-CP-02 3/8": UN3-CP-03 1/2": UN3-CP-04				1/4": UN3-DP-02				1/4": UN3-EP-02-2 3/8": UN3-EP-03-2 3/8": UN3-EP-03-3 1/2": UN3-EP-04-2 1/2": UN3-EP-04-3				1/4": UN3-FP-02-2 3/8": UN3-FP-03-2 3/8": UN3-FP-03-3 1/2": UN3-FP-04-2 1/2": UN3-FP-04-3				1/4": UN26-CP-02 3/8": UN26-CP-03 1/2": UN26-CP-04			

TYPE			GATE			GATE			GATE			GATE			GLOBE		
Carbon Steel																	
FIG			10SCLS			20SCLS			150SCLS			300SCLS			10SCJS / G-10SCJS		
PRESSURE			10K			20K			Class 150			Class 300			10K		
END CONNECTION			JIS B2220			JIS B2220			ASME B16.5			ASME B16.5			JIS B2220		
DIMENSIONS			inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	
	1½	40	—	—	—	—	—	—	165	385	200	190	413	200	—	—	—
	2	50	178	385	200	216	413	200	178	385	200	216	413	200	203	331	200
	2½	65	190	432	200	241	456	200	190	432	200	241	456	200	216	379	250
	3	80	203	509	250	283	530	250	203	509	250	283	530	250	241	389	250
	4	100	229	592	250	305	618	250	229	592	250	305	618	250	292	458	250
	5	125	254	658	300	381	694	300	254	658	300	381	694	300	356	484	300
	6	150	267	758	300	403	793	350	267	758	300	403	793	350	406	513	350
	8	200	292	958	350	419	1014	400	292	958	350	419	1014	400	495	929	500
	10	250	330	1162	400	457	1216	450	330	1162	400	457	1216	450	622	975	500
	12	300	356	1362	450	502	1458	600	356	1362	450	502	1458	600	698	1049	500
	14	350	381	1572	600	762	1563	600	381	1572	600	762	1563	600	—	—	—
	16	400	406	1692	600	838	1766	680	406	1692	600	838	1766	680	—	—	—
18	450	432	1888	600	914	1932	680	432	1888	600	914	1932	680	—	—	—	
20	500	457	2123	680	991	2137	760	457	2123	680	991	2137	760	—	—	—	
24	600	508	2497	760	1143	2542	910	508	2497	760	1143	2542	910	—	—	—	
BODY			Cast Steel			Cast Steel			Cast Steel			Cast Steel			Cast Steel		
BONNET			Cast Steel			Cast Steel			Cast Steel			Cast Steel			Cast Steel		
STEM			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC			Stainless Steel / Cast Steel			Stainless Steel / Cast Steel			Stainless Steel / Cast Steel			Stainless Steel / Cast Steel			Stainless Steel / Cast Steel		
															SIZE 8 to 12 Gear operation type		

TYPE		GLOBE					GLOBE					GLOBE					SWING CHECK					SWING CHECK				
Carbon Steel																										
FIG		20SCJS / G-20SCJS					150SCJS / G-150SCJS					300SCJS / G-300SCJS					10SCOS					20SCOS				
PRESSURE		20K					Class 150					Class 300					10K					20K				
END CONNECTION		JIS B2220					ASME B16.5					ASME B16.5					JIS B2220					JIS B2220				
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D						
	1½	40	—	—	—	165	331	200	229	361	200	—	—	—	—	—	—	—	—	—						
	2	50	267	361	200	203	331	200	267	361	200	203	156	—	267	164	—	203	156	—						
	2½	65	292	428	250	216	379	250	292	428	250	216	168	—	292	190	—	216	168	—						
	3	80	318	436	250	241	389	250	318	436	250	241	185	—	318	205	—	241	185	—						
	4	100	356	509	350	292	458	250	356	509	350	292	210	—	356	230	—	292	210	—						
	5	125	400	610	400	356	484	300	400	610	400	330	239	—	400	250	—	330	239	—						
	6	150	444	989	500	406	513	350	444	989	500	356	250	—	444	280	—	406	513	—						
	8	200	559	1064	500	495	929	500	559	1064	500	495	293	—	533	330	—	495	929	—						
	10	250	622	1142	600	622	975	500	622	1142	600	622	340	—	622	370	—	622	975	—						
	12	300	711	1187	600	698	1049	500	711	1187	600	698	375	—	711	415	—	698	1049	—						
	14	350	—	—	—	—	—	—	—	—	—	—	415	—	838	491	—	—	—	—						
	16	400	—	—	—	—	—	—	—	—	—	—	455	—	864	543	—	—	—	—						
	18	450	—	—	—	—	—	—	—	—	—	—	508	—	978	584	—	—	—	—						
	20	500	—	—	—	—	—	—	—	—	—	—	585	—	1016	645	—	—	—	—						
24	600	—	—	—	—	—	—	—	—	—	—	670	—	—	—	—	—	—	—							
BODY		Cast Steel					Cast Steel					Cast Steel					Cast Steel					Cast Steel				
BONNET		Cast Steel					Cast Steel					Cast Steel					—					—				
COVER		—					—					—					Cast Steel					Cast Steel				
STEM		Stainless Steel					Stainless Steel					Stainless Steel					—					—				
HINGE PIN		—					—					—					Stainless Steel					Stainless Steel				
DISC		Stainless Steel / Cast Steel					Stainless Steel / Cast Steel					Stainless Steel / Cast Steel					Stainless Steel / Cast Steel					Stainless Steel / Cast Steel				
		SIZE 6 to 12 Gear operation type					SIZE 8 to 12 Gear operation type					SIZE 6 to 12 Gear operation type														

TYPE		SWING CHECK				SWING CHECK			
Carbon Steel									
FIG		150SCOS				300SCOS			
PRESSURE		Class 150				Class 300			
END CONNECTION		ASME B16.5				ASME B16.5			
DIMENSIONS	inch	mm	L	H	D	L	H	D	
	1½	40	165	132	—	241	155	—	
	2	50	203	156	—	267	164	—	
	2½	65	216	168	—	292	190	—	
	3	80	241	185	—	318	205	—	
	4	100	292	210	—	356	230	—	
	5	125	330	239	—	400	250	—	
	6	150	356	250	—	444	280	—	
	8	200	495	293	—	533	330	—	
	10	250	622	340	—	622	370	—	
	12	300	698	375	—	711	415	—	
	14	350	787	415	—	838	491	—	
	16	400	864	455	—	864	543	—	
	18	450	978	508	—	978	584	—	
	20	500	978	585	—	1016	645	—	
	24	600	1295	670	—	—	—	—	
BODY		Cast Steel				Cast Steel			
COVER		Cast Steel				Cast Steel			
HINGE PIN		Stainless Steel				Stainless Steel			
DISC		Stainless Steel / Cast Steel				Stainless Steel / Cast Steel			

Bronze & Brass

Cast Iron

Ductile Iron

Stainless Steel

Carbon Steel

Butterfly Valve

Ball Valve

Ball Valve Seat

Actuated Valve

TYPE	BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY			
Butterfly Valve																				
FIG	10XJME				G-10XJME				PN16XJME<Z0P01>				G-PN16XJME<Z0P01>				10DJ			
PRESSURE	10K				10K				PN16				PN16				10K			
END CONNECTION	Wafer Type (JIS 5K,10K)				Wafer Type (JIS 5K,10K)				Wafer Type (BS EN 1092 PN16)				Wafer Type (BS EN 1092 PN16)				Wafer Type (JIS 5K,10K)			
DIMENSIONS	inch	mm	L	H	D	L	H	B	L	H	D	L	H	B	L	H	D	L	H	D
	1½	40	33	172	180	33	175	122	—	—	—	—	—	—	—	—	—	—	—	—
	2	50	43	176	180	43	179	122	43	176	180	43	179	122	43	191	180	43	191	180
	2½	65	46	185	180	46	188	122	46	185	180	46	188	122	46	199	180	46	199	180
	3	80	46	193	180	46	196	122	46	193	180	46	196	122	46	217	180	46	217	180
	4	100	52	204	180	52	223	135	52	204	180	52	223	135	52	227	180	52	227	180
	5	125	56	249	230	56	258	150	56	249	230	56	258	150	56	265	230	56	265	230
	6	150	56	261	230	56	270	150	56	261	230	56	270	150	56	277	230	56	277	230
	8	200	—	—	—	60	311	180	—	—	—	60	311	180	—	—	—	—	—	—
	10	250	—	—	—	68	405	180	—	—	—	—	—	—	—	—	—	—	—	—
	12	300	—	—	—	78	430	180	—	—	—	—	—	—	—	—	—	—	—	—
BODY	Aluminum Die-Cast				Aluminum Die-Cast				Aluminum Die-Cast				Aluminum Die-Cast				Ductile Iron			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Ductile Iron+ENP			
SEAT	EPDM				EPDM				EPDM				EPDM				NBR			
																	Ductile iron (Ni-plated) disc			

TYPE	BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY			
Butterfly Valve																				
FIG	G-10DJ				G-10DJUE				G-16DJUE				VG-10DJ				PN16DJ			
PRESSURE	10K				10K				16K				10K				PN16			
END CONNECTION	Wafer Type (JIS 5K,10K)				Wafer Type (JIS 10K)				Wafer Type (JIS 16K)				Wafer Type (JIS 5K,10K)				Wafer Type (BS EN 1092 PN16)			
DIMENSIONS	inch	mm	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D	L	H	D
	1½	40	—	—	—	33	175	80	—	—	—	—	—	—	—	—	—	—	—	—
	2	50	43	194	122	43	194	80	43	194	80	43	270	110	43	191	180	43	191	180
	2½	65	46	202	122	46	202	80	46	202	80	46	278	110	46	199	180	46	199	180
	3	80	46	236	135	46	236	110	46	236	110	46	285	110	46	217	180	46	217	180
	4	100	52	246	135	52	246	110	52	246	110	52	295	110	52	227	180	52	227	180
	5	125	56	274	150	56	274	110	56	274	110	56	325	170	56	265	230	56	265	230
	6	150	56	286	150	56	286	110	56	286	110	56	337	170	56	277	230	56	277	230
	8	200	60	325	180	60	325	170	60	325	170	60	404	200	60	295	350	60	295	350
	10	250	68	381	250	68	381	250	68	381	250	68	461	310	—	—	—	—	—	—
	12	300	78	406	250	78	406	250	78	406	250	78	486	310	—	—	—	—	—	—
	14	350	78	445	220	78	445	310	78	461	360	78	569	360	—	—	—	—	—	—
	16	400	102	500	220	102	500	310	102	516	360	102	624	360	—	—	—	—	—	—
	18	450	114	524	220	114	524	310	114	540	360	114	648	360	—	—	—	—	—	—
	20	500	127	589	350	127	589	360	127	623	500	127	741	500	—	—	—	—	—	—
	22	550	—	—	—	154	612	360	154	646	500	—	—	—	—	—	—	—	—	—
	24	600	154	637	350	154	637	360	154	671	500	154	789	500	—	—	—	—	—	—
	26	650	—	—	—	165	710	600	—	—	—	—	—	—	—	—	—	—	—	—
	28	700	—	—	—	165	735	600	—	—	—	—	—	—	—	—	—	—	—	—
	30	750	—	—	—	190	836	500	—	—	—	—	—	—	—	—	—	—	—	—
	32	800	—	—	—	190	862	500	—	—	—	—	—	—	—	—	—	—	—	—
BODY	Ductile Iron				Ductile Iron/Cast Iron				Ductile Iron				Ductile Iron				Ductile Iron			
STEM	Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC	Ductile Iron+ENP				Stainless Steel				Stainless Steel				Ductile Iron+ENP				Ductile Iron+ENP			
SEAT	NBR				EPDM				EPDM				NBR				NBR			
	Ductile iron (Ni-plated) disc												Ductile iron (Ni-plated) disc				Ductile iron (Ni-plated) disc			

TYPE		BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY				BUTTERFLY			
Butterfly Valve																					
FIG		G-PN16DJ				PN16DJL				G-PN16DJL				PN25DJE				PN25DJLE			
PRESSURE		PN16				PN16				PN16				PN25				PN25			
END CONNECTION		Wafer Type (BS EN 1092 PN16)				Lug Type (BS EN 1092 PN16)				Lug Type (BS EN 1092 PN16)				Wafer Type (BS EN 1092 PN25)				Lug Type (BS EN 1092 PN16)			
DIMENSIONS	inch	mm	L	H	B	L	H	D	L	H	D	L	H	B	L	H	D				
	2	50	43	194	122	43	191	180	43	194	122	43	191	180	43	191	180				
	2½	65	46	202	122	46	199	180	46	202	122	46	199	180	46	199	180				
	3	80	46	236	135	46	217	180	46	236	135	46	217	180	46	217	180				
	4	100	52	246	135	52	227	180	52	246	135	52	227	180	52	227	180				
	5	125	56	274	150	56	265	230	56	274	150	56	265	230	56	265	230				
	6	150	56	286	150	56	277	230	56	286	150	56	277	230	56	277	230				
	8	200	60	325	180	60	295	350	60	325	180	—	—	—	—	—	—				
	10	250	68	381	250	—	—	—	68	381	250	—	—	—	—	—	—				
	12	300	78	406	250	—	—	—	78	406	250	—	—	—	—	—	—				
	14	350	78	461	350	—	—	—	78	461	350	—	—	—	—	—	—				
	16	400	102	516	350	—	—	—	102	516	350	—	—	—	—	—	—				
	18	450	114	540	350	—	—	—	114	540	350	—	—	—	—	—	—				
20	500	127	623	400	—	—	—	127	623	400	—	—	—	—	—	—					
24	600	154	671	400	—	—	—	154	671	400	—	—	—	—	—	—					
BODY		Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron				Ductile Iron			
STEM		Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel				Stainless Steel			
DISC		Ductile Iron+ENP				Ductile Iron+ENP				Ductile Iron+ENP				Ductile Iron				Ductile Iron			
SEAT		NBR				NBR				NBR				EPDM				EPDM			
		Ductile iron (Ni-plated) disc				Ductile iron (Ni-plated) disc				Ductile iron (Ni-plated) disc				Ductile iron (Ni-plated) disc				Ductile iron (Ni-plated) disc			

TYPE		BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY				
Butterfly Valve																										
FIG		G-150DJ					G-150DJE					G-150DJL					200DJ					200DJL				
PRESSURE		Class 150					Class 150					Class 150					Class 200					Class 200				
END CONNECTION		Wafer Type (ASME B16.5 CL150)					Wafer Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)					Wafer Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)				
DIMENSIONS	inch	mm	L	H	B	L	H	B	L	H	B	L	H	D	L	H	D									
	2	50	—	—	—	—	—	—	—	—	—	42.9	191	180	42.9	191	180									
	2½	65	—	—	—	—	—	—	—	—	—	46	199	180	46	199	180									
	3	80	—	—	—	—	—	—	—	—	—	46	217	180	46	217	180									
	4	100	—	—	—	—	—	—	—	—	—	52.3	227	180	52.3	227	180									
	5	125	—	—	—	—	—	—	—	—	—	55.6	265	230	55.6	265	230									
	6	150	—	—	—	—	—	—	—	—	—	55.6	277	230	55.6	277	230									
	8	200	—	—	—	—	—	—	—	—	—	60.5	295	350	60.5	295	350									
	10	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
	12	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
	14	350	77.7	447	220	77.7	447	220	77.7	447	220	—	—	—	—	—	—									
	16	400	101.6	502	220	101.6	502	220	101.6	502	220	—	—	—	—	—	—									
	18	450	114.3	526	220	114.3	526	220	114.3	526	220	—	—	—	—	—	—									
20	500	127	587	360	127	587	360	127	587	360	—	—	—	—	—	—										
24	600	153.9	635	360	153.9	635	360	153.9	635	360	—	—	—	—	—	—										
BODY		Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron				
STEM		Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC		Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP				
SEAT		NBR					EPDM					NBR					NBR					NBR				
		Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc				

TYPE	BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY				
Butterfly Valve																									
FIG	G-200DJ					G-200DJE					G-200DJL					G-200DJLE					250DJ				
PRESSURE	Class 200					Class 200					Class 200					Class 200					Class 250				
END CONNECTION	Wafer Type (ASME B16.5 CL150)					Wafer Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)					Wafer Type (ASME B16.5 CL150)				
DIMENSIONS	inch	mm	L	H	B	L	H	B	L	H	B	L	H	B	L	H	B	L	H	B	L	H	D		
	2	50	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	191	180		
	2½	65	46	202	121.5	46	202	121.5	46	202	121.5	46	202	121.5	46	202	121.5	46	202	121.5	46	199	180		
	3	80	46	236	135	46	236	135	46	236	135	46	236	135	46	236	135	46	236	135	46	217	180		
	4	100	52.3	246	135	52.3	246	135	52.3	246	135	52.3	246	135	52.3	246	135	52.3	246	135	52.3	227	180		
	5	125	55.6	274	150	55.6	274	150	55.6	274	150	55.6	274	150	55.6	274	150	55.6	274	150	55.6	265	230		
	6	150	55.6	286	150	55.6	286	150	55.6	286	150	55.6	286	150	55.6	286	150	55.6	286	150	55.6	277	230		
	8	200	60.5	325	180	60.5	325	180	60.5	325	180	60.5	325	180	60.5	325	180	60.5	325	180	60.5	295	350		
	10	250	68.3	381	180	68.3	381	180	68.3	381	180	68.3	381	180	68.3	381	180	68.3	381	180	—	—	—		
	12	300	77.7	406	180	77.7	406	180	77.7	406	180	77.7	406	180	77.7	406	180	77.7	406	180	—	—	—		
BODY	Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron				
STEM	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP				
SEAT	NBR					EPDM					NBR					NBR					NBR				
	Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc				

TYPE	BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY					BUTTERFLY				
Butterfly Valve																									
FIG	G-250DJ					G-250DJE					250DJL					G-250DJL					G-250DJLE				
PRESSURE	Class 250					Class 250					Class 250					Class 250					Class 250				
END CONNECTION	Wafer Type (ASME B16.5 CL150)					Wafer Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)					Lug Type (ASME B16.5 CL150)				
DIMENSIONS	inch	mm	L	H	B	L	H	B	L	H	D	L	H	B	L	H	B	L	H	B	L	H	B		
	2	50	42.9	194	121.5	42.9	194	121.5	42.9	191	180	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5		
	2½	65	46	202	121.5	46	202	121.5	46	199	180	46	202	121.5	46	202	121.5	46	202	121.5	46	202	121.5		
	3	80	46	236	135	46	236	135	46	217	180	46	236	135	46	236	135	46	236	135	46	236	135		
	4	100	52.3	246	135	52.3	246	135	52.3	227	180	52.3	246	135	52.3	246	135	52.3	246	135	52.3	246	135		
	5	125	55.6	274	150	55.6	274	150	55.6	265	230	55.6	274	150	55.6	274	150	55.6	274	150	55.6	274	150		
	6	150	55.6	286	150	55.6	286	150	55.6	277	230	55.6	286	150	55.6	286	150	55.6	286	150	55.6	286	150		
	8	200	60.5	325	180	60.5	325	180	60.5	295	350	60.5	325	180	60.5	325	180	60.5	325	180	60.5	325	180		
	10	250	68.3	381	250	68.3	381	250	—	—	—	68.3	381	250	68.3	381	250	68.3	381	250	68.3	381	250		
	12	300	77.7	406	250	77.7	406	250	—	—	—	77.7	406	250	77.7	406	250	77.7	406	250	77.7	406	250		
BODY	Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron					Ductile Iron				
STEM	Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel					Stainless Steel				
DISC	Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP					Ductile Iron+ENP				
SEAT	NBR					EPDM					NBR					NBR					EPDM				
	Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc					Ductile iron (Ni-plated) disc				

TYPE	BUTTERFLY			BUTTERFLY			BUTTERFLY			BUTTERFLY			BUTTERFLY		
Butterfly Valve															
FIG	G-250DJA			G-250DAE			G-250DLA			G-250DLAE			10SHB		
PRESSURE	Class 250			Class 250			Class 250			Class 250			10K		
END CONNECTION	Wafer Type (ASME B 16.5 CL150)			Wafer Type (ASME B 16.5 CL150)			Lug Type (ASME B16.5 CL150)			Lug Type (ASME B16.5 CL150)			Wafer Type (JIS 10K)		
DIMENSIONS	inch	mm	L	H	B	L	H	B	L	H	B	L	H	B	L
	2	50	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	42.9	194	121.5	43
	2 1/2	65	46	202	121.5	46	202	121.5	46	202	121.5	46	202	121.5	46
	3	80	46	236	135	46	236	135	46	236	135	46	236	135	46
	4	100	52.3	246	135	52.3	246	135	52.3	246	135	52.3	246	135	52
	5	125	55.6	274	150	55.6	274	150	55.6	274	150	55.6	274	150	56
	6	150	55.6	286	150	55.6	286	150	55.6	286	150	55.6	286	150	56
	8	200	60.5	325	180	60.5	325	180	60.5	325	180	60.5	325	180	—
	10	250	68.3	381	250	68.3	381	250	68.3	381	250	68.3	381	250	—
	12	300	77.7	406	250	77.7	406	250	77.7	406	250	77.7	406	250	—
BODY	Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron		
STEM	Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC	Aluminum-Bronze			Aluminum-Bronze			Aluminum-Bronze			Aluminum-Bronze			Stainless Steel+Cr PLATING		
SEAT	NBR			EPDM			NBR			EPDM			C/F PTFE		

TYPE	BUTTERFLY			BUTTERFLY			BUTTERFLY			BUTTERFLY			BUTTERFLY		
Butterfly Valve															
FIG	16SHB			150SHB			G-10SHB			G-16SHB			G-150SHB		
PRESSURE	16K			Class 150			10K			16K			Class 150		
END CONNECTION	Wafer Type (JIS 16K)			Wafer Type (ASME B16.5 CL150)			Wafer Type (JIS 10K)			Wafer Type (JIS 16K)			Wafer Type (ASME B16.5 CL150)		
DIMENSIONS	inch	mm	L	H	D	L	H	B	L	H	D	L	H	B	L
	2	50	43	190	230	43	190	230	43	190	230	43	190	230	43
	2 1/2	65	46	203	230	46	203	230	46	203	230	46	203	230	46
	3	80	46	223	280	46	223	280	46	223	280	46	223	280	46
	4	100	52	237	280	52	237	280	52	237	280	52	237	280	52
	5	125	56	258	350	56	258	350	56	258	350	56	258	350	56
	6	150	56	275	350	56	275	350	56	275	350	56	275	350	56
	8	200	—	—	—	—	—	—	60	324	200	60	324	200	60
	10	250	—	—	—	—	—	—	68	401	401	68	401	310	68
	12	300	—	—	—	—	—	—	78	429	429	78	429	310	78
BODY	Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron			Ductile Iron		
STEM	Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC	Stainless Steel+Pr PLATING			Stainless Steel+Pr PLATING			Stainless Steel+Cr PLATING			Stainless Steel+Cr PLATING			Stainless Steel+Cr PLATING		
SEAT	C/F PTFE			C/F PTFE			C/F PTFE			C/F PTFE			C/F PTFE		

TYPE		BUTTERFLY					BUTTERFLY			BUTTERFLY			BUTTERFLY			BUTTERFLY		
Butterfly Valve																		
FIG		10UB					GL-10UB			GL-150UB			10NFJNE			G-10NFJNE		
PRESSURE		10K					10K			Class 150			10K			10K		
END CONNECTION		Wafer Type (JIS 10K)					Wafer Type (JIS 10K)			Wafer Type (ASME B16.5 CL150)			Wafer Type (JIS 5K,10K)			Wafer Type (JIS 5K,10K)		
DIMENSIONS		inch	mm	L	H	D	L	H	B	L	H	B	L	H	D	L	H	B
	1½	40	33	183	230	33	202	150	33	202	150	—	—	—	—	—	—	—
	2	50	43	176	230	43	192	150	43	192	150	43	176	180	43	179	122	—
	2½	65	46	186	230	46	202	150	46	202	150	46	184	180	46	187	122	—
	3	80	46	207	280	46	226	195	46	226	195	46	194	180	46	213	135	—
	4	100	52	221	280	52	240	195	52	240	195	52	204	180	52	223	135	—
	5	125	56	241	350	56	261	204	56	261	204	56	249	230	56	258	150	—
	6	150	56	263	350	56	283	204	56	283	204	56	261	230	56	270	150	—
	8	200	—	—	—	71	348	280	71	348	280	—	—	—	60	311	180	—
	10	250	—	—	—	76	416	310	—	—	—	—	—	—	68	381	250	—
	12	300	—	—	—	83	443	310	—	—	—	—	—	—	78	406	250	—
	14	350	—	—	—	92	475	358	—	—	—	—	—	—	—	—	—	—
	16	400	—	—	—	102	572	360	—	—	—	—	—	—	—	—	—	—
	18	450	—	—	—	114	607	360	—	—	—	—	—	—	—	—	—	—
20	500	—	—	—	127	623	360	—	—	—	—	—	—	—	—	—	—	
24	600	—	—	—	154	757	371	—	—	—	—	—	—	—	—	—	—	
BODY		Stainless Steel					Stainless Steel			Stainless Steel			Ductile Iron			Ductile Iron		
STEM		Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC		Stainless Steel					Stainless Steel			Stainless Steel			Ductile Iron+Nylon11			Ductile Iron+Nylon11		
SEAT		PTFE					PTFE			PTFE			EPDM			EPDM		
													Nylon Coated disc			Nylon Coated disc		

TYPE	BUTTERFLY					BUTTERFLY			DAMPER			DAMPER			DAMPER		
Butterfly Valve																	
FIG	10NFJNW					G-10NFJNW			10D			GL-10D			GL-10A		
PRESSURE	10K					10K			10K			10K			10K		
END CONNECTION	Wafer Type (JIS 5K,10K)					Wafer Type (JIS 5K,10K)			Wafer Type (JIS 5K,10K)			Wafer Type (JIS 5K,10K)			Wafer Type (JIS 5K,10K)		
DIMENSIONS	inch	mm	L	H	D	L	H	B	L	H	D	L	H	B	L	H	D
	2	50	43	176	180	43	179	122	40	183	200	40	198	150	40	198	150
	2½	65	46	184	180	46	187	122	45	191	200	45	206	150	45	206	150
	3	80	46	194	180	46	213	135	50	198	200	50	213	150	50	213	150
	4	100	52	204	180	52	223	135	60	208	200	60	223	150	60	223	150
	5	125	56	249	230	56	258	150	65	237	280	65	249	190	65	249	190
	6	150	56	261	230	56	270	150	70	247	280	70	259	190	70	259	190
	8	200	—	—	—	60	311	180	80	272	280	80	284	190	80	284	190
	10	250	—	—	—	68	381	250	90	340	350	90	355	195	90	355	195
	12	300	—	—	—	78	406	250	100	365	350	100	380	195	100	380	195
BODY	Ductile Iron					Ductile Iron			Cast Iron+HCr			Cast Iron+HCr			Cast Iron+HCr		
STEM	Stainless Steel					Stainless Steel			Stainless Steel			Stainless Steel			Stainless Steel		
DISC	Ductile Iron+Nylon11					Ductile Iron+Nylon11			Stainless Steel			Stainless Steel			Stainless Steel		
SEAT	White-NBR					White-NBR			—			—			—		
	Nylon Coated disc					Nylon Coated disc											



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