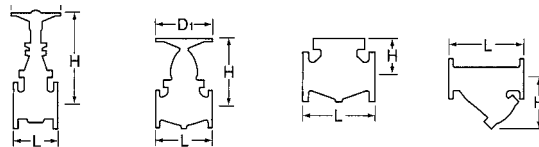


Cast Iron Valves



Design		TOYO Standard											
Type		Gate Valves					Globe Valve			Swing Check Valve			
Class		10K											
Fig.		410E			420E			405E			430E		
Size		L	H	D ₁	L	H	D ₁	L	H	D ₁	L	H	
50 (mm)	2"	178	319	180	178	357	180	203	318	200	203	153	
65	2½"	190	350	180	190	412	180	216	333	200	216	162	
80	3"	203	401	200	203	482	200	241	361	200	241	176	
100	4"	229	457	250	229	569	250	292	390	250	292	220	
125	5"	254	523	280	254	672	280	330	439	300	330	226	
150	6"	267	602	300	267	783	300	356	477	300	356	307	
200	8"	292	711	360	292	985	355	495	542	360	495	325	
250	10"	330	842	400	330	1196	400	622	624	450	622	384	
300	12"	356	941	450	356	1390	450	698	735	500	698	426	
350	14"												
400	16"												
Material	Body	Cast Iron			Cast Iron			Cast Iron			Cast Iron		
	Stem/Pin	Brass			Brass			Brass			Brass		
	Disc	Cast Iron			Cast Iron			Cast Iron			Cast Iron		
	Seat	Bronze			Bronze			Bronze			Bronze		
Service conditions	120°C water, non-shock 1.37MPa 120°C oil, water, air 0.98Mpa Saturated steam 0.20Mpa												
Remarks	Body Marking: MSS standard indicating "125S 200WOG", Connection JIS B2239 10K-FF												

Design		TOYO Standard	
Type		Strainer	
Class		10K	
Fig.		450E	
Size		L	H
40 (mm)	1½"		
50	2"	225	178
65	2½"	273	176
80	3"	292	195
100	4"	352	246
125	5"	391	300
150	6"	470	321
200	8"	543	398
250	10"	660	483
300	12"	762	560
350	14"		
400	16"		
Material	Body	Cast Iron	
	Screen	SUS304	
		(SUS316 Screen available)	
Service conditions	120°C water, non-shock 1.37MPa 120°C oil, water, air 0.98Mpa Saturated steam 0.69Mpa		
Remarks	Body Marking: MSS standard		

Trim Combination (JIS Standard)

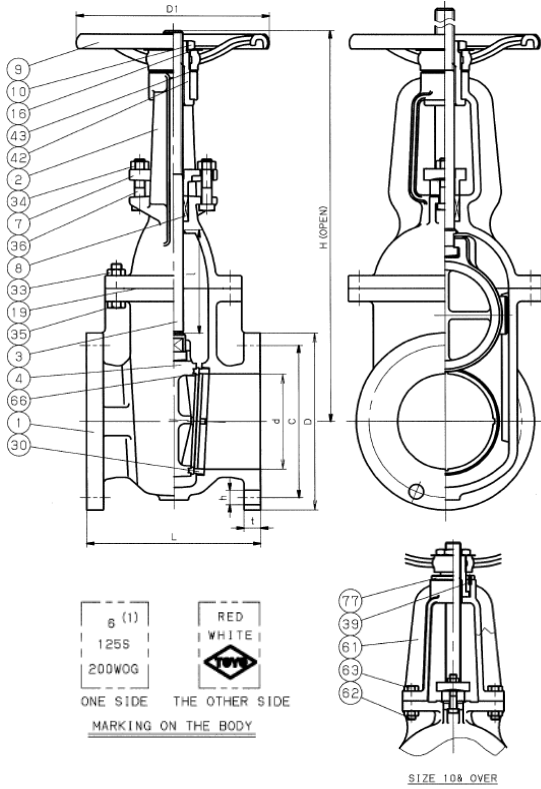
Fig.	Stem/Pin	Disc	Seat
425J	Brass	C.I./Same material as Seat	Bronze
425JS	13%Cr		13%Cr
425JU	SUS304		SUS304
405J	Brass		Bronze
405JS	13%Cr		13%Cr
405JU	SUS304		SUS304
435J	Brass		Bronze
435JS	13%Cr		13%Cr
435JU	SUS304		SUS304



FIG. No. 420E

10K - CAST IRON GATE VALVES

BOLTED BONNET, OUTSIDE SCREW & YOKE, FLANGED ENDS



Materials

No	Name of parts	Specifications	
1	BODY	CAST IRON	A126 CL.B
2	BONNET	CAST IRON	A126 CL.B
3	STEM	FORGED BRASS	B124 C37700
4	DISC	CAST IRON	A126 CL.B
7	GLAND	DUCTILE IRON	
8	GLAND PACKING	NON ASBESTOS	
9	HAND WHEEL	DUCTILE IRON	(SIZE 2-5)
		CAST IRON	(SIZE 6 -12)
10	WHEEL NUT	CARBON STEEL	
16	NAME PLATE	ALUMINUM	
19	GASKET	NON ASBESTOS SHEET	
30	BODY SEAT RING	CAST BRONZE	B62 C83600
33	BONNET NUT	CARBON STEEL	ZINC PLATED
34	GLAND NUT	CARBON STEEL	ZINC PLATED
35	BONNET BOLT	CARBON STEEL	ZINC PLATED
36	GLAND BOLT	CARBON STEEL	ZINC PLATED
39	PIN	CARBON STEEL	
42	YOKE SLEEVE	CAST BRONZE	B62 C83600
43	WHEEL WASHER	FORGED BRASS	
61	YOKE	CAST IRON	
62	YOKE NUT	CARBON STEEL	ZINC PLATED
63	YOKE BOLT	CARBON STEEL	ZINC PLATED
66	DISC SEAT RING	CAST BRONZE	B62 C83600
77	SLEEVE NUT	CAST IRON	

Dimensions

UNIT : mm

SIZE	d	H	D1	L	I	FLANGE					
						D	BOLT HOLE			BOLT SIZE	t
							C	NO.	h		
2	50	357	180	178	59.5	152	120	4	19	M16	15.9
2 1/2	65	412	180	190	75.5	178	140	4	19	M16	17.5
3	80	482	200	203	91.5	190	150	8	19	M16	19.1
4	100	569	250	229	112.5	229	175	8	19	M16	23.9
5	125	672	280	254	139.5	254	210	8	23	M20	23.9
6	150	783	300	267	165.5	279	240	8	23	M20	25.4
8	200	985	355	292	217.5	343	290	12	23	M20	28.6
10	250	1196	400	330	269.5	406	355	12	25	M22	30.2
12	300	1390	450	356	320.5	483	400	16	25	M22	31.8

"D" & "t" SHALL BE IN ACCORDANCE WITH ASME B16.1 JIS 10KFF.

Working Pressures

Service conditions	
120°C water, non-shock	1.37MPa
120°C oil, water, air	0.98MPa
Saturated steam	0.20MPa

*Design and materials are subject to change without notice.