



Bronze Valves

Design		TOYO Standard	MSS SP-80							
Type		Lift Check Valve	Swing Check Valves						Lift Check Valve	
Class		125						150		
										
Fig.		231	236A		236T		234		230A	
Size		L	L	H	L	H	L	H	L	H
8 (mm)	1/4"		54	40	54	40				
10	3/8"		54	40	54	40	53	39	44	26
15	1/2"	53	56	40	56	40	60	39	53	28
20	3/4"	59	70	49	70	49	70	45	65	34
25	1"	67	80	58	80	58	80	52	77	42
32	1 1/4"	78	95	71	95	71	92	62	85	50
40	1 1/2"	84	110	80	110	80	102	67	100	56
50	2"	98	128	95	128	95	122	79	119	67
65	2 1/2"		156	119	156	114	150	91	139	79
80	3"		184	139	184	131	165	102	158	91
100	4"									
Material	Body	Bronze	Bronze		Bronze		Bronze		Bronze	
	Pin	—	Brass		Brass		Brass		—	
	Disc	FKM	Brass or Bronze		PTFE		Brass		Bronze	
Service conditions		1.37MPa (200psi) WOG non-shock 0.86MPa (125psi) Saturated steam							2.06MPa (300psi) WOG non-shock 1.03MPa (150psi) Saturated steam	
Remarks		ASME taper threads only, Spring loaded			PTFE seat		BS/JIS taper threads only			

Design	MSS SP-80	TOYO Standard					
Type	Swing Check Valve	Swing Check Valve				Strainer	
Class	150	300				150	
							
Fig.	238	360		380A			
Size	L	H	L	H	L	H	
8 (mm) 1/4"							
10 3/8"	54	39					
15 1/2"	60	39	60	42	80	49	
20 3/4"	72	49	72	51	100	57	
25 1"	84	58	84	61	115	70	
32 1 1/4"	99	70	99	74	135	82	
40 1 1/2"	113	79	113	83	160	98	
50 2"	131	95	131	98	195	121	
65 2 1/2"	162	114			230	148	
80 3"	186	132			240	180	
100 4"							
Material	Body	Bronze		Bronze		Bronze	
	Pin	Brass		Brass		Screen	SUS304
	Disc	Bronze		Bronze			
Service conditions	2.06MPa (300psi) WOG non-shock 1.03MPa (150psi) Saturated steam		4.13MPa (600psi) WOG non-shock 2.06MPa (300psi) Saturated steam		1.72MPa (250psi) WOG non-shock 1.03MPa (150psi) Saturated steam		
Remarks					Perforated screen equivalent to 14-16 meshes		