

# CLASS 125

# BRONZE SWING CHECK VALVE

Screwed Cap, Swing type disc  
Threaded ends to BS21 (JIS B0203) or NPT,  
or solder joint ends.

W.O.G. non-shock 1.38 MPa (200 psi), Saturated steam pressure 0.86 MPa (125 psi)



**Fig. R**

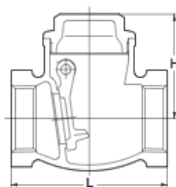
- Threaded end to BS21 (JIS B0203)

**Fig. AKR**

- Threaded end to ASME B1.20.1

**Fig. CR**

- Solder joint ends to JIS B2011 / ASME B16.18 (2½ & 3)



### Materials

Parts	Material
Body	Bronze
Cap	Brass/Bronze*
Hinge pin	Brass
Disc	Brass/Bronze*

\*Size 4 only

⚠ Solder joint end valves should not be used in service where the temperature of line fluid is higher than the softening point of solder.

⚠ Don't use for Flammable gas or Toxic gas.

### Dimensions

Nominal Size	inch mm	3/8	1/2	3/4	1	1¼	1½	2	2½	3	4
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
L		53	60	70	80	92	102	122	150	165	195
L1 Solder		56	67	89	104	120	134	164	193	213	
H		39	39	45	52	62	67	79	91	102	119

# CLASS 125

# BRASS GATE VALVE

Screwed Bonnet, Non-rising Stem  
Threaded ends to BS21 (JIS B0203) or NPT,  
or solder joint ends.

W.O.G. non-shock 1.38 MPa (200 psi), Saturated steam pressure 0.86 MPa (125 psi)



**Fig. FH**

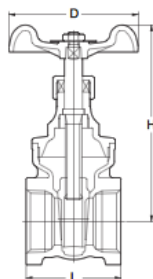
- Threaded end to BS21 (JIS B0203)

**Fig. AKFH**

- Threaded end to ASME B1.20.1

**Fig. CFH**

- Solder joint ends to ASME B16.18



### Materials

Parts	Material
Body	Brass
Bonnet	Brass
Stem	Dezincification Resistant Brass
Disc	Brass
Gland Packing	Aramid Fibers Graphite

⚠ Solder joint end valves should not be used in service where the temperature of line fluid is higher than the softening point of solder.

⚠ Don't use for Flammable gas or Toxic gas.

### Dimensions

Nominal Size	inch mm	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½	3
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
L		35	38	42	47	50	60	63	72	82	92
L1 Solder			37	45	60	70	77	86	104	115	127
H		70	73	73	87	97	118	126	154	187	205
D		50	50	50	55	60	70	80	90	100	115

# TYPE 600

# BRASS BALL VALVE, FULL PORT

Bolted body and cap, Blowout-proof Stem,  
Double O-ring stem seals,  
Threaded ends to ASME B1.20.1 or  
solder joint ends.

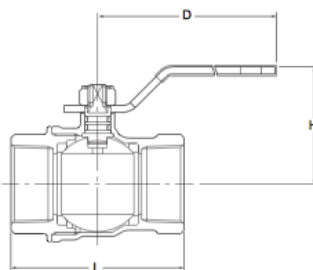
W.O.G. non-shock 4.14 MPa (600 psi)\*, W.O.G. 150°C 1.03 MPa (150 psi)



**Fig. AKSZA**

- Threaded end to ASME B1.20.1 • Solder joint to ASME B16.18

**Fig. CSZA**



\*Size 4 : W.O.G. non-shock 2.76MPa (400psi), W.O.G. 150°C 0.69MPa (100psi)

### Materials

Parts	Material
Body	Brass/Bronze*
Body cap	Brass/Bronze*
Stem	Brass: Nickel plated
Ball	Brass: chrome free plated (Size ¼ to 3) Brass: Nickel-chrome plated (Size 4)
Ball seat	PTFE
O-ring	FKM

\*Size 4 only

⚠ Solder joint end valves should not be used in service where the temperature of line fluid is higher than the softening point of solder.

### Dimensions

Nominal Size	inch mm	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½	3	4
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
L		42	42	53	60	72	84	92	110	138	167	193
L1 Solder			46	54	73	88	100	115	140	164	187	
H		37	37	40	43	50	55	65	72	100	112	131
D		70	70	80	80	110	110	150	150	200	300	300

Approvals  
(up to 2)



NSF/ANSI61-8



CSA (US/C)



UL



FM

\*AKSZA: Size ¼ to 3, \*\*AKSZA only

# CLASS 125

# IRON SWING CHECK VALVE

Bolted cover, swing type disc.

200psi. Water, oil, gas 65°C  
125psi. Saturated steam

**Fig. 125FCO**

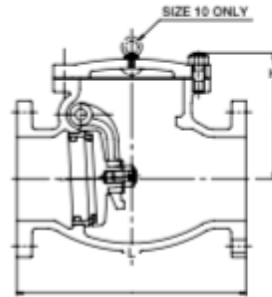
- Bronze trim

**Fig. 125FCOS**

- Stainless steel trim (13 Cr.)



SIZE 4 & LARGER



### Materials

Parts	Material	ASTM Spec.	
		125FCO	125FCOS
Body	Cast Iron	A126 CL. B	
Cover	Cast Iron	A126 CL. B	
Hinge pin	Brass/Stainless Steel	B124 C37700	A276 Type403
Disc	2 to 4	Bronze/Stainless Steel	B62
	5 & larger	Cast Iron	A126 CL. B
Disc seat ring	Bronze/Stainless Steel	B62	A182 Gr.F6a
Body seat ring	Bronze/Stainless Steel	B62	A182 Gr.F6a
Arm	Stainless Steel	A351 Gr.CF8	
Gasket	Asbestos-free		
Cover bolt/nut	Carbon Steel		

### Design Specifications

Items	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions End-to-end dimensions	ASME B16.10 Class 125
End flange dimensions Gasket contact facing	ASME B16.1 Class 125

### Dimensions

Valve Size	inch	2	2½	3	4	5	6	8	10	mm
L Face-to-face	mm	50	65	80	100	125	150	200	250	
H Height (OPEN)		111	121	145	165	207	225	268	315	

# CLASS 125

# IRON SWING CHECK VALVE

Bolted cover, swing type disc.

200psi. Water, oil, gas 65°C  
125psi. Saturated steam

**Fig. 125FCO**

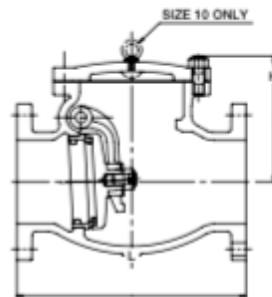
- Bronze trim

**Fig. 125FCOS**

- Stainless steel trim (13 Cr.)



SIZE 4 & LARGER



### Materials

Parts	Material	ASTM Spec.	
		125FCO	125FCOS
Body	Cast Iron	A126 CL. B	
Cover	Cast Iron	A126 CL. B	
Hinge pin	Brass/Stainless Steel	B124 C37700	A276 Type403
Disc	2 to 4	Bronze/Stainless Steel	B62
	5 & larger	Cast Iron	A126 CL. B
Disc seat ring	Bronze/Stainless Steel	B62	A182 Gr.F6a
Body seat ring	Bronze/Stainless Steel	B62	A182 Gr.F6a
Arm	Stainless Steel	A351 Gr.CF8	
Gasket	Asbestos-free		
Cover bolt/nut	Carbon Steel		

### Design Specifications

Items	
Shell wall thickness and general valve design	KITZ Standard
Face-to-face dimensions End-to-end dimensions	ASME B16.10 Class 125
End flange dimensions Gasket contact facing	ASME B16.1 Class 125

### Dimensions

Valve Size	inch	2	2½	3	4	5	6	8	10	mm
L Face-to-face	mm	50	65	80	100	125	150	200	250	
H Height (OPEN)		111	121	145	165	207	225	268	315	