

CHECK VALVE

Model: CK3M/CK3T/CK3R (Disc Type Check Valve With Screw Connection)

Features

Compact check valve for steam, air, water and other fluid services.

1. Fine-machined metal, fluorine resin or nitrile rubber valve seat provides tight closure.
2. Corrosion resistant body material and stainless steel internal parts ensure long service life.
3. Performance assured with installation in either horizontal or vertical pipelines.



Specifications

Model	CK3M			CK3T			CK3R		
Connection	Screwed								
Size (mm)	15-25	32-50	15-50	15-25	32-50	15-50	15-25	32-50	15-50
Body Material	Brass	Bronze	Stainless Steel	Brass	Bronze	Stainless Steel	Brass	Bronze	Stainless Steel
Sealing Surface	Brass	Bronze	Stainless Steel	Fluorine Resin			Nitrile Rubber		
Max. Operating Press. (MPaG) PMO	1.0		2.1	1.0		1.6	1.0		1.6
Min. Operating Differential Press. (MPa)	0.002								
Min. Required Differential Press. For Tight Sealing (MPa)	-						0.05		
Max. Operating Temp. (°C) TMO	220			185			90		
Applicable Fluids*	Steam			Steam, Hot Water			Air, Water		

*Do not use for toxic, flammable or otherwise hazardous fluids.

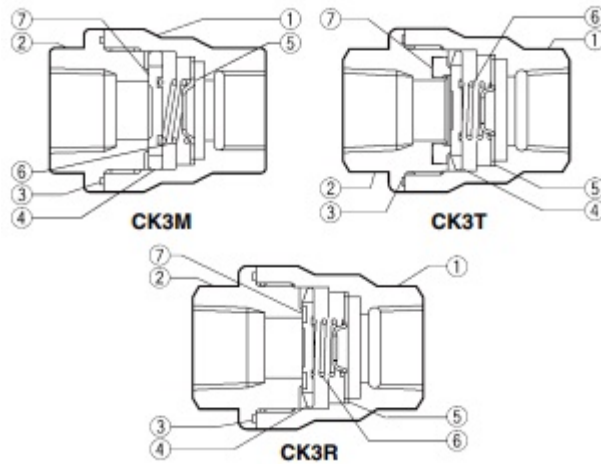
1MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

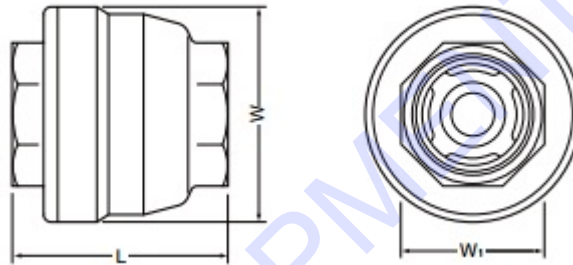
Maximum Allowable Pressure (MPaG) PMA: 1.0 (Brass, Bronze), 2.1 (Stainless Steel)

Maximum Allowable Temperature (°C) TMA: 220

CAUTION : To avoid abnormal operation, accidents of serious injury, Do Not use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.



Bronze, Size 32-50 mm



No.	Description	Materials	JIS	ASTM/AISI*
1	Valve Body (15-25)	Brass	C3604	B16 C36000
	Valve Body (32-50)	Bronze	CAC407	B584 C92200
	Valve Body (15-50)	Cast Stainless Steel	SCS13	A351 Gr.CF8
2	Inlet Union (15-25)	Brass	C3604	B16 C36000
	Inlet Union (32-50)	Bronze	CAC407	B584 C92200
	Inlet Union (15-50)	Cast Stainless Steel	SCS13	A351 Gr.CF8
3	Union Gasket	Fluorine Resin	PTFE	PTFE
4	Valve Disc (15-25)	Stainless Steel	SUS304	AISI304
	Valve Disc (32-50)	Cast Stainless Steel	SCS13	A351 Gr.CF8
5	Spring Holder	Stainless Steel	SUS304	AISI304
6	Coil Spring	Stainless Steel	SUS304	AISI304
7	Valve Seat (CK3T)	Fluorine Resin	PTFE	PTFE
	Valve Seat (CK3R)	Nitrile Rubber	NBR	D2000BF
	Valve Seat (CK3M 15-25)	Brass	C3604	B16 C36000
	Valve Seat (CK3M 32-50)	Bronze	CAC407	B584 C92200
	Valve Seat (CK3M 15-50)	Cast Stainless Steel	SCS13	A351 Gr.CF8

*Equivalent

Dimensions

CK3M / CK3T / CK3R Screwed* (mm)

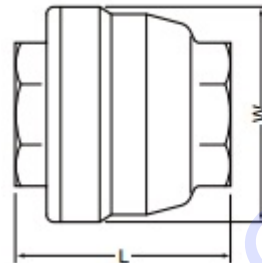
Size	L	ϕW	W1	Weight (kg)
15	55	40	27	0.3
20	60	50	32	0.5
25	70	60	41	0.8
32	80	75	50	1.3
40	85	85	55	1.6
50	100	95	70	2.2

*Rc(PT), other standards available

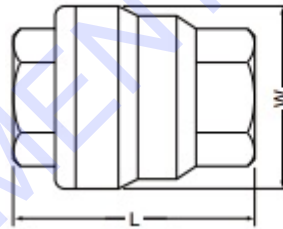
Brass, Size 15-25 mm



Bronze, Size 32-50 mm



Stainless Steel, Size 15-50 mm



Cv Values

Size (mm)	15	20	25	32	40	50
Cv (US)	3.7	6.6	10	15	21	29
Cv (UK)	3.1	5.5	8.3	13	17	24
Kvs (DIN)	3.2	5.7	8.6	13	18	25

KRUNG THAI EQUIPMENT