



# CHECK VALVE

## MODEL CK3MG

### HIGH-CAPACITY DISC TYPE CHECK VALVE WITH LOW PRESSURE DROP

#### Benefits

**Compact check valve for steam and water services.**

1. Fine-machined metal valve seat and center-guided disc provide tight closure and durability.
2. Stainless steel body and internal parts ensure long service life.
3. Center-guided design offers the highest performance assurance for installation in either vertical or horizontal pipelines.
4. Simple construction eliminates problems.
5. Low pressure drop due to large flow area.



#### Specifications

Model		CK3MG
Connection		<b>Screwed</b>
Size (in)		<b>1, 1½, 2, 3</b>
Sealing Surface*		Stainless Steel
Maximum Operating Pressure (psig)	PMO	300
Minimum Opening Differential Pressure** (psi)		0.15
Maximum Operating Temperature (°F)	TMO	428
Maximum Allowable Pressure (psig)	PMA	450
Maximum Allowable Temperature (°F)	TMA	428
Applicable Fluids***		Steam, Water

\* Perfect sealing cannot be guaranteed for metal sealing surfaces.

\*\* When the valve has remained closed for a long period of time, the valve and the valve seat may stick, increasing the necessary minimum opening differential pressure.

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

**Connections and sizes in bold are standard**



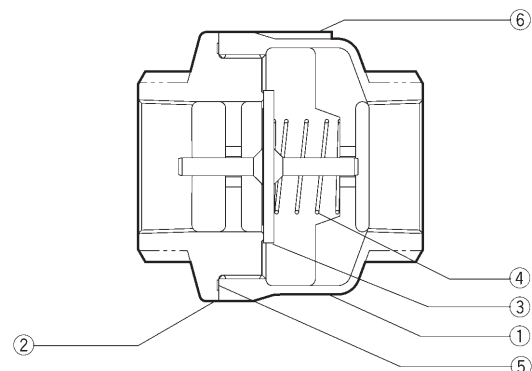
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI*	JIS
①	Valve Body	Cast Stainless Steel	A351 Gr.CF8	—
②	Inlet Union	Cast Stainless Steel	A351 Gr.CF8	—
③ <sup>R</sup>	Valve Disc	Stainless Steel	AISI304	SUS304
④ <sup>R</sup>	Coil Spring	Stainless Steel	AISI304	SUS304
⑤ <sup>MR</sup>	Union Gasket	Fluorine Resin	PTFE	PTFE
⑥	Nameplate	Stainless Steel	AISI304	SUS304

\* Equivalent

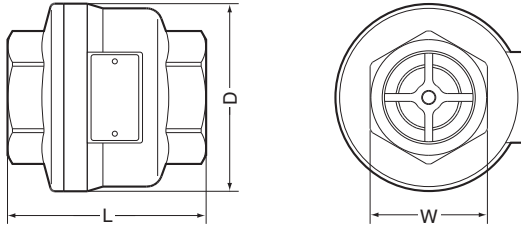
Replacement kits available: (M) maintenance parts, (R) repair parts

When requesting replacement kits, please specify the Minimum Opening Differential Pressure.



**Dimensions**

• **CK3MG** Screwed



**CK3MG** Screwed\* (in)

Size	φ D	L	W	Weight (lb)
1	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>8</sub>	2.2
1½	4	4 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	5.7
2	4 <sup>3</sup> / <sub>4</sub>	5	2 <sup>15</sup> / <sub>16</sub>	8.1
3	5 <sup>15</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	12.1

\* NPT, other standards available

**Cv Values**

Size (in)	1	1½	2	3
Cv (US)	25	55	91	180
Cv (UK)	21	46	76	150
Kvs (DIN)	21	47	78	154



**CAUTION** DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

**TLV CORPORATION**

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Manufacturer  
**TLV CO., LTD.**  
 Kakogawa, Japan  
 is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001

