TLV. CHECK VALVE MODEL CK3M/CK3T/CK3R

HIGH QUALITY DISC TYPE CHECK VALVE WITH LOW PRESSURE DROP

Benefits

Compact check valve for steam, air and water services.

- 1. Fine machined metal, fluorine resin or nitrile rubber valve seats provide tight closure.
- 2. Stainless steel internal parts and body ensure long service life.
- 3. No wear of valve disc or valve seat even with frequent, implusive contact between them.
- 4. Performance assured with installation in either vertical or horizontal pipelines.
- 5. Simple construction eliminates problems.
- 6. Low pressure drop due to large flow area.
- 7. Also functions as a vacuum breaker (CK3M, CK3T only). See overleaf for details.



Specifications

Model		CK3M	СКЗТ	CK3R
Connection	nection		Screwed	
Size (in)		1/2, 3/4, 1, 11/4, 11/2, 2	1/2, 3/4, 1, 11/4, 11/2, 2	
Sealing Surface*		Stainless Steel	Fluorine Resin	Nitrile Rubber
Maximum Operating Pressure (psig)	PMO	300	230	
Maximum Operating Temperature (°F)	TMO	428	365	194
Minimum Required Differential Pressure for Tight Sealing (psi)		—		7
Minimum Opening Differential Pressure** (psi)			0.3	
Maximum Allowable Pressure (psig)	PMA	300		
Maximum Allowable Temperature (°F)	TMA	428		
Applicable Fluids***		Steam	Steam, Hot Water	Air, Water

Perfect sealing cannot be guaranteed for metal or fluorine resin sealing surfaces.

Degradation of, or debris on, rubber sealing surfaces may also prevent perfect sealing.

** 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.

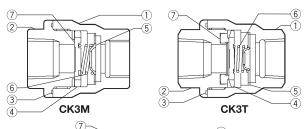


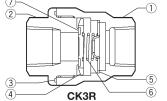
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

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 ^{MR}	Union Gasket		Fluorine Resin	PTFE	PTFE
<u></u>		1/2 - 1	Stainless Steel	AISI304	SUS304
(4) ^R	Valve Disc	1¼ - 2	Cast Stainless Steel	A351 Gr.CF8	-
5	Spring Holder		Stainless Steel	AISI304	SUS304
(6) ^R	Coil Spring		Stainless Steel	AISI304	SUS304
	Valve Seat	CK3M	Cast Stainless Steel	A351 Gr.CF8	_
0		СКЗТ	Fluorine Resin	PTFE	PTFE
		CK3R	Nitrile Rubber	D2000BF	NBR

* Equivalent

Replacement kits available: (M) maintenance parts, (R) repair parts When requesting replacements kids, please specify the minimum operating differential pressure.





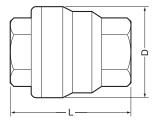
Connections and sizes in bold are standard

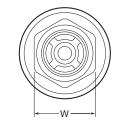
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Dimensions

• CK3M/CK3T/CK3R Screwed





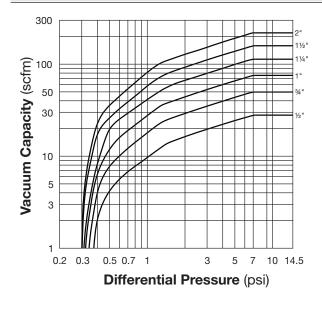
СКЗМ/СІ	кзт/скз	R Screwe	Screwed*	
Size	L	φD	W	Weight (lb)
1/2	2 ³ / ₁₆	1 % ₁₆	1 ½6	0.7
3⁄4	23⁄8	2	1¼	1.1
1	2¾	23%	1%	1.8
11⁄4	31⁄8	2 ¹⁵ / ₁₆	2	2.9
1½	33⁄8	3¾	23/16	3.5
2	3 ¹⁵ / ₁₆	3¾	2¾	4.9

* NPT, other standards available

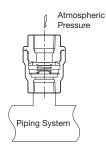
Cv Values

Size (in)	1/2	3⁄4	1	1¼	1½	2
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

Vacuum Breaker Function



- Differential pressure is the difference between the inlet pressure of the check valve and the internal pressure of the piping system.
- Capacities are equivalent capacities of air at 68°F and atmospheric pressure.
- Configure the outlet piping to prevent dust penetration during suction.



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 IR0A Ltd. to IS0 9001/14001



ISO 9001 ISO 14001

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