

## Series "CKD" Compact Diaphragm Check Valves

**Designed To Prevent Reverse Flow of Extremely Corrosive and Ultra-Pure Liquids  
Sizes 1/4" and 1/2"**

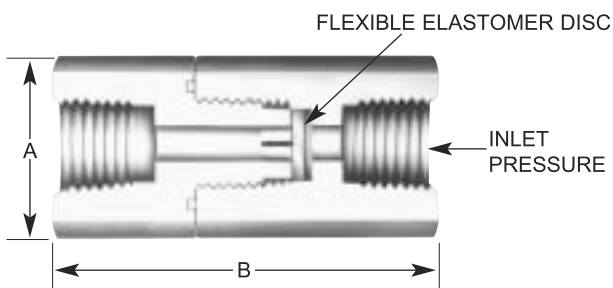
### OPERATION:

The "CKD" Check Valves utilize a flexible elastomer disc for their sealing action. This sensitive disc offers very low pressure sealing. In addition, the disc requires extremely minimal pressure to move to the open position. Since these sealing discs are self-centering, they seal in the identical position every time, allowing more reliable sealing and prolonged life. The elastomer disc is kept clean by the constant flushing action of the inlet flow, keeping the sealing area free of particles which otherwise might cause leakage.

The minimum back pressure required to close Series "CKD" is 1/2 PSI.

When inlet pressure is sensed the sealing disc is pushed off the valve seat opening the valve. In this position the sealing disc is supported internally allowing the valve to operate under high flow conditions with relatively no force or stress on the disc.

### DIMENSIONS:



**SERIES "CKD" DIMENSIONS**

PIPE SIZE (NPT)	ORIFICE SIZE		"A"		"B"		Cv FACTOR
	Inches	mm	Inches	mm	Inches	mm	
1/4"	3/16"	4.8	1-1/8"	28.6	2-1/16"	52.4	0.50
1/2"	5/16"	7.9	1-1/2"	38.1	2-5/8"	66.7	1.00

In 1/2" piping systems where high flow is required, the 1/2" Series "CKD" Check Valves may not operate efficiently enough because of its orifice size, 5/16". In such cases, the 1/2" Series "CKM" Check Valve should be used.

### INSTALLATION:

The Series "CKD" Check Valves, unlike the Series "CK" and "CKM" Check Valves, depend on gravity for sealing assistance in low flow applications. Series "CKD" Check Valves should be installed so gravity will allow the disc to rest against the valve seat when flow is not present. **IMPORTANT:** In liquids having high specific gravities the sealing discs may float. In these applications the valves should be piped so the disc floats against the seat.

### ORDERING INFORMATION:

When ordering Series "CKD" Check Valves, order by model number and specify materials of construction.

### SPECIFICATIONS AND MODEL NUMBERS

PIPE SIZE (NPT)	MAX. PSI @ 75°F	MAXIMUM TEMP. RATING °F (°C)	MATERIAL	MODEL NUMBERS
1/4"	140	140°F (60°C)	PVC	CKD025V-PV
	125	180°F (82°C)	POLYPRO	CKD025V-PP
	100	280°F (138°C)	PVDF	CKD025V-PF
	100	300°F (149°C)	TEFLON®	CKD025V-TF
1/2"	140	140°F (60°C)	PVC	CKD050V-PV
	125	180°F (82°C)	POLYPRO	CKD050V-PP
	100	280°F (138°C)	PVDF	CKD050V-PF
	100	300°F (149°C)	TEFLON®	CKD050V-TF

Also available in EPDM. Substitute "EP" for "V" in part number.

# JJD

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