

CRYOGENIC VACUUM JACKETED CHECK VALVE

# CK8082 CHECK VALVE

0 - 300 PSIG





### **APPLICATIONS**

- Cryogenic Storage Tanks
- Cryogenic Transportation Trailers
- Cryogenic Vacuum Jacketed Piping Systems
- Cryogenic Processing Plants
- Vacuum Insulated Piping Systems
- Cryogenic Over-Road Trailers



## **OPERATING RANGES**

Temperature..... -456° F to +300° F (-273° C to +149° C)

Max. Operating Pressure 300 PSIG



### **FEATURES**

- Vacuum Jacketed or Non-Jacketed
- Bubble Tight Shut Off
- Redundant Packing Seals
- Axially Bolted Bonnet or High Seat Loading
- Low Heat Leak Extension
- Self-Centering Plug Seal
- Quality Investment Cast Body for High Flow Values
- Easy In-line Maintenance



## **TECHNICAL DATA**

#### **Materials of Construction:**

All Major Structural Components are 300 Series Stainless Steel

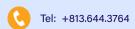
Seat Seal	PCTFE
Packing	PTFE or Graphite
Gasket	Glass Filled PTFF

#### **Testing:**

External Leakage	. Mass spec. to
	1x10 <sup>-9</sup> scc GHe/sec
Seat Leakage	. Bubble Tight to 150 PSIG
Proof Pressure	. 330 PSIG (ambient)

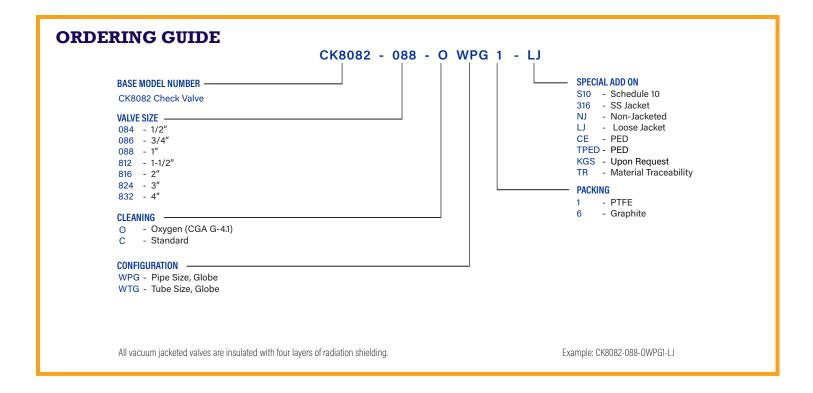
#### Valve Size:

1/2" to 4"





# CV8082 CHECK VALVE 0 to 300 PSIG





#### PERFORMANCE CHARACTERISTICS

Valve Size	Conductive Heat Leak (BTU/HR to 20°K)	Cooldown Weight (#)	Flow Coefficient (C <sub>v</sub> )		
			Globe	Y	Angle
1/2"	5.9	2.7	6.6	9	8
3/4"	6.6	3.3	8	12	10
1"	10.4	3.8	14	22	17
1-1/2"	21.8	7.0	34	47	41
2"	27.3	10.2	50	96	60
3"	68.1	30.8	139	162	145
4"	79.9	51.2	182	288	248
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