

CRYOGENIC VACUUM JACKETED CHECK VALVE

CK8082 CHECK VALVE

0 to 300 PSIG



Valve Size:

Standard: 1/2" to 4"



APPLICATIONS

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



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 PTFE

Testing:

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



OPERATING RANGES

Temperature.....	-456° F to +300° F (-273° C to +149° C)
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Max. Operating Pressure 300 PSIG

CV8082 CHECK VALVE

ORDERING GUIDE

CK8082 - 088 - O WPG 1 - LJ

BASE MODEL NUMBER

CK8082 Check Valve

VALVE SIZE

084 - 1/2"
086 - 3/4"
088 - 1"
812 - 1-1/2"
816 - 2"
824 - 3"
832 - 4"

CLEANING

O - Oxygen (CGA G-4.1)
C - Standard

CONFIGURATION

WPG - Pipe Size, Globe
WTG - Tube Size, Globe

SPECIAL ADD ON

S10 - Schedule 10
316 - SS Jacket
NJ - Non-Jacketed
LJ - Loose Jacket
CE - PED
TPED - PED
KGS - Upon Request
TR - Material Traceability

PACKING

1 - PTFE
6 - Graphite

All vacuum jacketed valves are insulated with four layers of radiation shielding.

Example: CK8082-088-OWPG1-LJ



PERFORMANCE CHARACTERISTICS

Valve Size	Conductive Heat Leak (BTU/HR to 20°K)	Cooldown Weight (#)	Flow Coefficient (C _v)		
			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