

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 PTFE

Testing:

External Leakage Mass spec. to

1x10⁻⁹scc 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

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: CK8082-088-0WPG1-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