

Inexpensive Protection Against Fire

Description:

The Becker Thermal Check Valve (TCV) is designed for use with regulated natural gas supply systems. The Thermal Check Valve offers simple and inexpensive insurance against fire in natural gas regulating stations, compressor stations, or other areas where regulated natural gas supply systems are present. The Valve stops the flow of combustible natural gas into potentially hazardous areas in the event of fire or excessive heat.

How it Works:

During normal operation, a steel ball is held in the OPEN position by a eutectic (low melting temperature) alloy. When exposed to high temperatures, approximately 250°F, the alloy will melt dropping the ball into a lapped steel seat and ball form a bubble-tight seal, completely shutting off the flow of gas. The ball is held in its seated position by the pressure itself which prevents any possibility of gas flow.

Applications:

- Natural Gas Regulating Stations
- Natural Gas Heater Fuel Supply Systems
- Natural Gas Compressor Stations
- Anywhere pressurized combustible gas sources are present

Features and Capabilities:

- Can be easily installed at any point in a supply gas line
- Simple and reliable design utilizing only one moving part
- No calibration or adjustment necessary
- Variety of inlet/outlet port sizes available

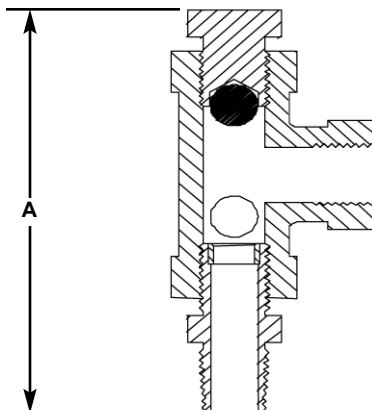
Figure 2.0 - TCV Thermal Check Valve



Table 1.0 - TCV Thermal Check Valve Dimension Table

TCV Model Number	TCV-4	SS-TCV-4	TCV-8	SS-TCV-8	TCV-12	SS-TCV-12	TCV-16	SS-TCV-16
Part Number	10-2005	10-2521	10-2509	10-2524	10-2068	10-2525	10-2007	10-2526
Body Material	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
A	3.2	3.2	4.5	4.5	4.9	4.9	5.8	5.8
B	1.3	1.3	1.8	1.8	2.2	2.2	2.5	2.5
C	0.9	0.9	1.2	1.2	1.3	1.3	1.7	1.7
D	1.9	1.9	2.8	2.8	3.1	3.1	3.6	3.6
Inlet Connection	¼" FNPT	¼" FNPT	½" FNPT	½" FNPT	¾" FNPT	¾" FNPT	1.0" FNPT	1.0" FNPT
Outlet Connection	¼" MNPT	¼" MNPT	½" MNPT	½" MNPT	¾" MNPT	¾" MNPT	1.0" MNPT	1.0" MNPT

Figure 1.0 - TCV Thermal Check Valve Dimension Drawing



Toll-Free Assistance!

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