

WHAT IS TANK BLANKETING?

Tank Blanketing, sometimes referred to as “padding”, is the process of filling the empty space of a liquid storage tank with an inert gas, most likely Nitrogen due to its inert properties, availability and relatively low cost.

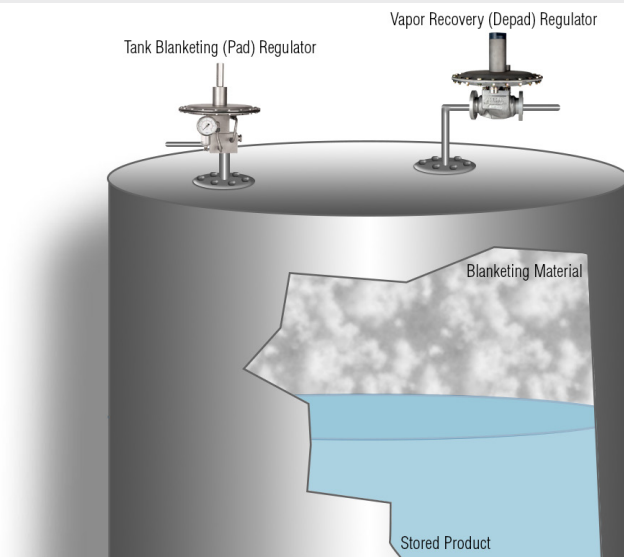
WHY IS IT IMPORTANT?

Blanketing protects people, the environment, products, and equipment. If the media is combustible, blanketing removes the Oxygen required for combustion. Blanketing protects food and other substances from oxidation, contamination or evaporation. Vapor recovery prevents harmful vapors from escaping into the atmosphere. Reducing corrosion through oxidation helps maintain the integrity of the tank.

INDUSTRIES

- Chemical
- Petrochemical
- Oil & Gas
- Food & Beverage
- Pharma / Biopharm
- Personal Care / Cosmetics
- Semiconductor

HOW IT WORKS



Two-Sided System

- The padding and de-padding valves work together
- The padding valve is a pressure reducing valve (PRV) and controls the pressure in the tank
 - Ensures there is sufficient pressure in the tank
- The de-padding valve (BPRV) is also controlling the pressure in the tank
 - Ensures the tank is not over pressurized
- The set point of the de-padding valve is slightly higher than the padding valve.

Tank Blanketing Valves

Series	Function	Operation	Pressure Registration	Sizes	Body Materials	End Connections	Max Inlet Pressure	Max Temp.	Minimum Set Range	Max Cv or Largest Orifice	Sizing	ANSI Shutoff
508	BPRV	Direct	Internal	3/4" - 1-1/4"	DI, CS, SST	Threaded, Flanged	150 psi 10 bar	200°F 93°C	2" to 6" wc		Charts	Class IV
508	BPRV	Direct	External	1-1/2" - 2"	BRONZE, CS, SST	Threaded, Flanged	25 psi 1,7 bar	275°F 135°C	2" to 5" wc	37 Cv 32 Kv	Charts	Class IV
518	BPRV	Direct	External	1", 2", 4"	SST	Threaded (1" only), Flanged	29 psi 2 bar	356°F 180°C	1" to 5" wc	81 Cv 70 Kv	Charts	Class IV
608	PRV	Direct	External	1-1/2" - 2"	BRONZE, CS, SST	Threaded, Flanged	60 psi 4 bar	275°F 135°C	2" to 5" wc	23 Cv 20 Kv	Charts	Class IV
608BP	PRV	Direct	External	3/4" - 1"	DI, CS, SST	Threaded, Flanged	150 psi 10 bar	200°F 93°C	2" to 5" wc	3/8" Orifice	Charts	Class IV
608IS	PRV	Direct	Internal	3/4" - 1-1/4"	CS, SST	Threaded, Flanged	150 psi bar	200°F 93°C	1" to 2.5" wc	9/16" Orifice	Charts	Class IV
688	PRV	Piloted	External	1" - 2"	CS, SST	Flanged	200 psi 13,8 bar	100°F 38°C	1" to 5" wc	45 Cv 39 Kv	JVCV	Class IV
695X	PRV	Direct	External	1/2" - 3/4"	SST (316L)	Threaded, Weld End	200 psi 13,8 bar	250°F 121°C	0.5" to 5.5" wc	10 Cv 9 Kv	Charts	Class IV
695	PRV	Piloted	External	1" - 2"	SST	Threaded, Flanged	200 psi 13,8 bar	250°F 121°C	0.5" - 7" wc	48 Cv 28 Kv	JVCV	Class IV

For higher flows and larger sizes, contact your Jordan Valve Client Consultant

Learn more at www.jordanvalve.com