

WHAT IS TANK BLANKETING?

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

HOW IT WORKS

Two-Sided System

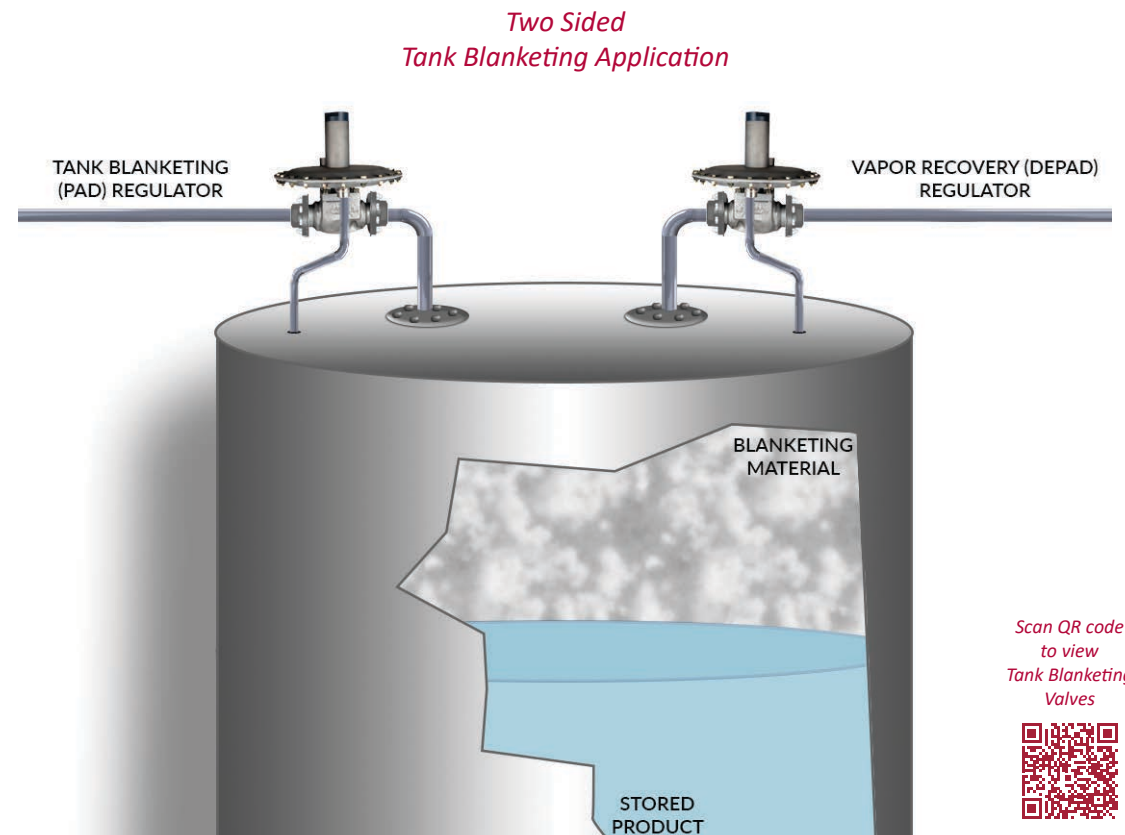
- The padding and de-padding valves work together
- The padding valve is a pressure reducing valve (PRV) and controls the pressure in the tank
 - Ensures there is sufficient pressure in the tank
- The de-padding valve (BPRV) is also controlling the pressure in the tank
 - Ensures the tank is not over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

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
- Refining
- Food & Beverage
- Pharma | Biopharm
- Personal Care / Cosmetics
- Semiconductor



Scan QR code
to view
Tank Blanketing
Valves



513-533-5600

Series	Operation	Pressure Registration	Sizes	Body Materials	End Connections	Max Inlet Pressure	Max Temp.	Minimum Set Range	Max Cv or Largest Orifice	Sizing	ANSI Shutoff
Padding Valves (PRV's)											
Jordan Mark 608	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
Jordan Mark 608BP	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
Jordan Mark 608IS	Direct	Internal	3/4" - 1-1/4"	CS, SST	Threaded, Flanged	150 psi 10 bar	200°F 93°C	1" to 2.5" wc	9/16" Orifice	Charts	Class IV
Jordan Mark 688	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
Jordan Mark 695	Piloted	External	3/4" - 1"	SST	Threaded, Flanged	200 psi 13.8 bar	100°F 38°C	0.5" to 5.5" wc	10 Cv 9 Kv	JVCV	Class VI
Jordan Mark 695	Piloted	Internal	2"	SST	Threaded, Flanged, Weld End	200 psi 13.8 bar	250°F 121°C	0.7 to 5.4" wc	48 Cv 28 Kv	JVCV	Class IV
Jordan Mark 695X	Direct	External	1/2" - 3/4"	SST (316L)	Threaded, Flanged	200 psi 13.8 bar	250°F 121°C	0.5" to 5.5" wc	0.4 Cv 0.34 Kv	JVCV	Class IV
De-Padding Valves (BPRV's)											
Jordan Mark 508	Direct	Internal	3/4" - 1-1/4"	DI, CS, SST	Threaded, Flanged	150 psi 10 bar	200°F 93°C	2" to 6" wc	8 Cv 7 Kv	Charts	Class IV
Jordan Mark 508	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
Jordan Mark 518	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
Equilibr GS Series	Direct, Air/ Gas Loaded	Internal	1/4" - 1"	CS, SST, Others upon request	Threaded, Flanged	50 - 2500 psi 3.4 - 172 bar Model dependent	620 °F 327°C	≥1" wc, Size/ Diaphragm dependent	8.50 Cv 7.35 Kv	Contact Factory	Size, Diaphragm dependent
Equilibr BD Series	Direct, Air/ Gas Loaded	Internal	1-1/2" - 4"	CS, SST, Others upon request	Threaded, Flanged	20 - 400 psi 1.4 - 27.5 bar Model dependent	620 °F 327°C	≥1" wc, Size/ Diaphragm dependent	160 Cv 138.4 Kv	Contact Factory	Size, Diaphragm dependent