

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.

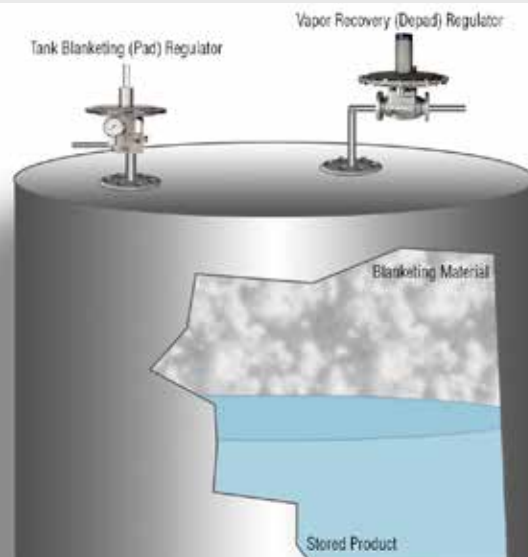
WHY IS IT IMPORTANT?

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 VI |
| 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 VI |
| 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 VI |
| 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 VI |
| 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 VI |
| 608IS | PRV | 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 VI |
| 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 VI |
| 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 | JVCV | Class VI |
| 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 VI |

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

Learn more at www.jordanvalve.com