



Sealing Global - Servicing Local



Lamons Kammpro® Bonnet

PATENT PENDING

"Kammprofiles of Distinction"

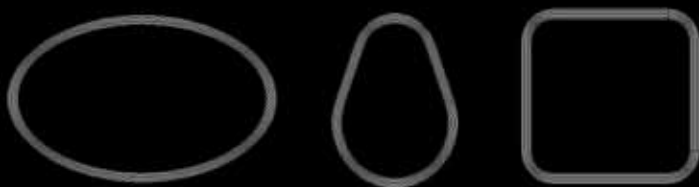


Bonnet connections can be problematic in regards to fugitive emission controls on industrial valves. Gate, Knife, Globe and Check valves commonly utilize these obround bolted connections to reduce the size and weight of the valve. As a critically monitored piece of equipment, and considering the number of emission points on a composite valve, the bonnet connection is considered a focal point for potential emissions. Due to the irregular geometry of the flange, gasket options are somewhat limited and best technologies are often excluded as a sealing solution.

Lamons' unique milling process incorporates a precise guiding and machining operation that allows non-circular shapes to be produced very efficiently and with extreme accuracy. Obrounds, ovals, and ellipses are common bonnet connection shapes that cannot be produced by lathe turning. Lamons' Kammpro machining operation can easily satisfy the shape requirements and offer a best technology kammprofile for a myriad of new applications such as this.

Lamons' Kammpro is recognized as a best technology for many cyclic applications, applications requiring a robust construction and low minimum seating characteristics. These are common characteristics in many industrial valve applications where bonnet connections can have limited available bolt load. The solid core with serrated metal surfaces eliminates buckling and winding deformation that is inherent in spiral wound gaskets while providing a seal that seats at 1/3 the stress of a spiral wound gasket. The serrated surfaces can be covered with a variety of facing materials to suit the application parameters. Any metallurgy can be supplied to suit the flange material or process requirements.

- Produced by applying precisely machined serrations over rigid metal substrates
- Utilizes the machined serrations to create regions of extremely high unit loads that result in ultimate fugitive emission control
- Non-circular shapes produced efficiently and with extreme accuracy to fit common bonnet connection shapes:
Obrounds, Ovals, Ellipses, etc.



GASKET CONSTANTS

"M" - 2.75
"Y" - 3700 PSI

TEMPERATURE RANGE

GRAPHITE CRYOGENIC TO 975°F (524°C)*
PTFE CRYOGENIC TO 450°F (232°C)

*REQUIRES THE USE OF OXIDATION INHIBITED FLEXIBLE GRAPHITE

For assistance with Kammpro Bonnet sizing and design, contact Lamons Engineering:
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