

DB CamLock Gaskets

Lower Closure Force, Better Sealing



Dual Bead (DB) design requires 40% less closure force and provides 55% more sealing pressure

The Parker Dual Bead (DB)CamLock Seal® design provides maximum sealing pressure under minimal seal load. The dual bead, small contact point design improves performance by requiring less installation force, extending seal life, and reducing downtime and costly maintenance.

Parker DB CamLock Seals are dimensioned to fit easily into all standard CamLock fitting assemblies and remain in the groove during installation and service.



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Product Features:

- Easy installation
- Superior sealing
- Retention fit
- Chemical processing materials
- Color coded materials for easy identification

Benefits:

- 40% less load to close and open fittings
- Dual Bead design increases sealing pressure by 55% (on average)
- Reduced profile eliminates material stress and extends seal life
- Dual Bead ensures seal will never fall out of the fitting
- Long lasting, resilient elastomers
- Eliminates the need and risk of PTFE/ FEP gaskets

ENGINEERING YOUR SUCCESS.

Independent Testing & Testimonials

Superior Performance

Kemkey Safety Coupling, has engineered and manufactured a fiberglass filled with polypropylene fitting to service the specialty chemical industry.

In conjunction with National Technical Systems (ISO/IEC 17025 accredited), the Parker DB CamLock Seal was tested alongside a standard Banjo Gasket.

Two tests were performed:

- Seal leakage - application of liquid pressure until failure (industry requirement =125psi)
- Vertical Torque -100psi of liquid pressure with applied vertical load until failure

	Seal Test	Vertical Torque
	Leakage (psi)	100 psi
Standard 2" metal fitting & standard EPDM DB Gasket	164	36 ft-lb
KemKey 2" fitting & Parker EPDM DB Gasket	319	288 ft-lb
KemKey 2" fitting & Parker FKM DB Gasket	335	200 ft-lb

Figure 1

Testimonials

"The only reason [in my opinion] that explains the outstanding performance is your [Parker's] seals made a HUGE difference."

- Randy Brown - President KemKey LLC

"I liked the fact that it [Parker DB Gasket] is much easier to close the cam arms while achieving the same compression. Pressure seemed to be about the same if not a slight bit higher than our standard gaskets. I was bending pins so its hard to tell if it was the gasket that was leaking or just the pin bending. The true test here would be on 6" cam and groove as this is where we usually run into sealing issues. Your [Parker's] gaskets are also much easier to remove and replace while not falling out on accident."

-Leading US CamLock Fittings Manufacturer

Innovation by Design

Parker used state-of-the-art Finite Element Analysis (FEA) to simulate and develop a gasket which offers the maximum sealing potential with the least amount of load force.

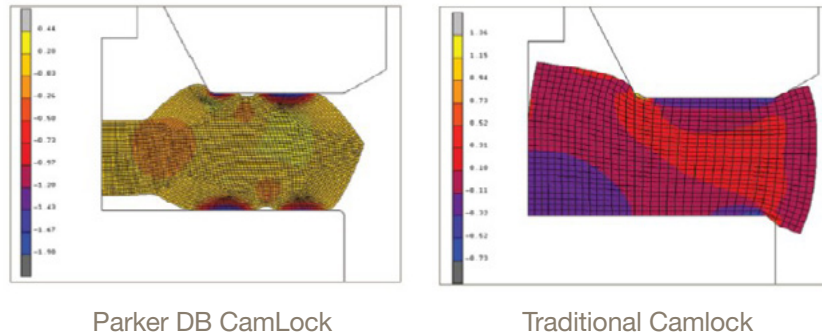


Figure 2: (FEA) of the Parker Dual Bead design vs a traditional CamLock seal demonstrates increased sealing, reduced load, minimal stress and almost no intrusion. In comparison the FEA also identified extreme stress points on the outer diameter of traditional gaskets potentially causing early failure.

Performance by Design

Compared to industry standard flat seals (see figure 2), the Parker DB Gasket requires significantly less load to compress, thereby extending the service life of both gasket and the fittings.

In addition, under normal operating conditions, the Parker DB Gasket will not fall out of the fitting and does not protrude into the flow path further reducing stress and increasing seal life.

Gasket Type	Max. Sealing (psi)	Max. Stress
Standard	106	197
Parker DB	275	64

Figure 3

Parker Compound	Polymer	Hardness	Color	Temperature Range (°F)
EW400-60	EPDM	60	White	-70 to 250
EB401-60	EPDM	60	Black	-70 to 250
NB402-60	NBR	60	Black	-30 to 250
SA403-70	VMQ	70	Rust	-75 to 350
VW404-65	FKM	65	Blue	-15 to 400

Figure 4

Product Ordering

87 **16** - **1** — Rubber Material/ Color Suffix

*Tubing O.D. in
sixteenths of an inch*

Camlock Seal Identifier

- | |
|--|
| Standard
1 Silicone/Rust
3 EPDM/White
8 Nitrile/Black
9 EPDM/Black
10 FKM/Blue |
|--|

Custom Identification and Traceability

For ease of identification and traceability, laser etching is available on all Parker CamLock Gaskets. Etching can include company logo's or name, identification codes and more. Contact us today for more information on how to make your CamLock Gasket easily identifiable.



Figure 5: Laser etched identification includes codes for material type & date manufactured

