



# Integrated Sealing Systems Division

## Sanitary Gasket Field Notes

### Sanitary Gasket Update

ISS has released a Food & Beverage specific bulletin (catalog number, ISS 5812) for use in the field. The bulletin can be used when your customer requires a 3-A compliant material.

The first new feature in the bulletin is the header that specifies we are 3-A compliant to

procedure 18-03 making it suitable for use in food and beverage applications where the requirement is needed.

Another new feature is the cut-a-way photo on the front cover. This photo provides you the opportunity to show customers the differentiation in our design over the competitors product.

The photo details several design advantages as follows:

1. Dual beads right sized for the correct compression.
2. An inner bead at the seal point that prevents surface leakage across the seal face.
3. Location tabs that insure correct alignment and eases assembly by gripping the OD of the ferrule.
4. The plastic (blue as shown) carrier that retains the seal in position, not allowing it to intrude into the system flow.

The design above offers a technically sound solution that will help reduce the customers risk, help them achieve operational excellence and lower their total operating costs.

**Hygienic Sanitary Gaskets**  
Controlled Compression Gaskets for Food and Beverage Applications



**USP Class VI, FDA and NSF Approved 3-A Compliant to Procedure 18-03**

Hygienic sanitary gaskets are built to last. They feature long term durability, excellent wear performance, complete material traceability and easy installation.

Our sanitary gaskets are designed to meet typical FDA/CFR hygienic clamp unions with a newly built stainless steel (304) gasket, providing the advantage of any metal with a clean appearance on both mechanical parts and contact surfaces. In addition, the built-in metal tabs prevent contact of the stainless steel gasket that could compromise the process stream.

**Product Features**

- Inner seal beads provide primary point of sealing
- External points on one inch and larger sizes help support seal beads and maintain flush interface
- Notched outer seal bead geometry maintains seal capacity without an overtight condition that would cause the metal to extrude into the ID during normal operation
- Outer clips to edge gasket to facilitate
- Quick access available 1/4" through 1"

**Contact Information**

Parker Hannifin Corporation  
Integrated Sealing Systems Division  
3300 Mayflower Drive  
Lynchburg, VA 24091  
phone: 434 646 6541  
fax: 434 647 3735  
www.parker.com

**Over-Molded Rubber to Plastic Design**

Rubber over-molded gaskets provide superior sealing, superior material traceability, and superior performance. They are available in a wide range of materials and sizes to meet your specific application needs.

**Laboratory Testing for Intrusion & Sealability**

Using product dimensions, Parker's sanitary gasket testing protocol provides a means to help you understand the performance of your gasket under real-world conditions.

**Test Results**

After 1000 cycles of intrusion and sealability testing, Parker's sanitary gaskets showed no signs of failure. Competing products have failed to meet the same rigorous testing protocol.

**Material Traceability**

Parker's sanitary gaskets are made from high quality materials. Each gasket is individually traceable to its source. This ensures that you can identify the exact material used in your gasket.

**Product Offering**

Parker's hygienic sanitary gaskets are offered in our 304 stainless steel, 316L stainless steel, and 316L titanium. All gaskets are made to order and are available in a wide range of sizes to meet your specific application needs.

Size	Material	Part No.	Part No.	Part No.
1/4"	304	1000	1001	1002
1/2"	304	2000	2001	2002
3/4"	304	3000	3001	3002
1"	304	4000	4001	4002
1 1/2"	304	5000	5001	5002
2"	304	6000	6001	6002
3"	304	7000	7001	7002
4"	304	8000	8001	8002
6"	304	9000	9001	9002
8"	304	10000	10001	10002
10"	304	11000	11001	11002
12"	304	12000	12001	12002
15"	304	13000	13001	13002
18"	304	14000	14001	14002
24"	304	15000	15001	15002
30"	304	16000	16001	16002
36"	304	17000	17001	17002
42"	304	18000	18001	18002
48"	304	19000	19001	19002
60"	304	20000	20001	20002

**Sanitary Gasket Size Chart**

1/4" - 1" - 304  
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**Sanitary Gasket Size Chart**

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**Sanitary Gasket Size Chart**

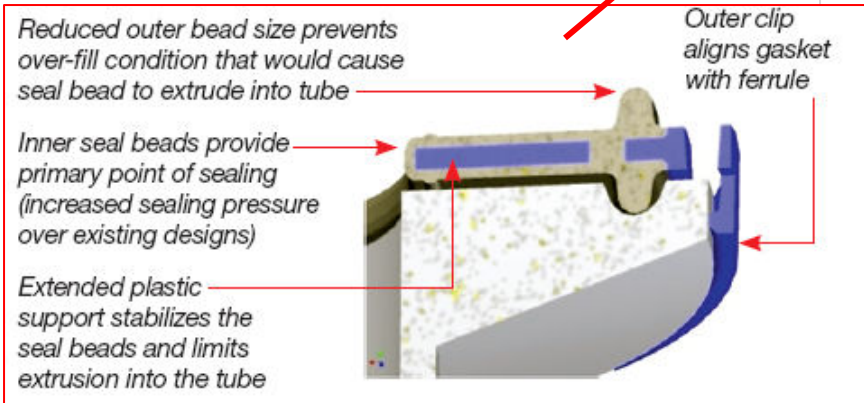
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3" - 316L  
4" - 316L  
6" - 316L  
8" - 316L  
10" - 316L  
12" - 316L  
15" - 316L  
18" - 316L  
24" - 316L  
30" - 316L  
36" - 316L  
42" - 316L  
48" - 316L  
60" - 316L

**Sanitary Gasket Size Chart**

1/4" - 316Ti  
1/2" - 316Ti  
3/4" - 316Ti  
1" - 316Ti  
1 1/2" - 316Ti  
2" - 316Ti  
3" - 316Ti  
4" - 316Ti  
6" - 316Ti  
8" - 316Ti

## Food & Beverage *continued*:

We have added a graphic on the back side of the ISS 5812 that supplements the photo on the front page and details the ISS design characteristics in a cross-section view. These characteristics provide superior quality, alignment and traceability.



**Over-Molded Rubber to Plastic Design**

Parker's hygienic sanitary gasket type B design provides superior sealability, alignment and traceability. Reduced outer bead size prevents over-fill condition that would cause seal bead to extrude into tube. Extended plastic support stabilizes the seal beads and limits extrusion into the tube.

**Laboratory Testing for Intrusion & Sealability**

During product development, Parker's sanitary gaskets were evaluated side-by-side with various industry leading sanitary gasket supplier products, by an independent test laboratory. In doing so, Parker confirmed its product performs better than what exists in the market today.

**Test Results**

After the completion of 100 runs in place cycles, Parker's gaskets exhibited an average of 20% of intrusion. Compared to the competitor's gaskets, Parker's ethylene propylene (EPDM) gaskets displayed:

- A minimum of 100% less intrusion
- The ability to hold pressure without having to re-torque the clamp, resulting in labor cost savings.
- The ability to disassemble the joint and remove the gasket by hand without the use of special tools, improving the safe removal of the gasket and reducing labor costs.

**Material Traceability**

Each sanitary gasket has product identification etched on the part to allow for full traceability. This etched identification includes codes for the material type, manufacturing shift, and date. Parker's internal rubber mixing capability ensures full traceability back to the raw ingredients used in production.

**Product Offering**

Parker's hygienic sanitary gaskets are offered in our B200-70 compound, a USP Class VI, FDA and NSF approved ethylene propylene (EPDM) material, as well as fluorocarbon (FFCM) and silicone (PQM) materials. All Parker material offerings listed are in compliance with 3-A procedure 10-03-2007 requirements.

Part Number	Material	Particulate Matter	Color	Size (O.D.)	Type
8404	see below	700	3"	A	
8406	see below	700	5"	A	
8408	see below	700	10"	A	
8412	see below	700	5"	A	
8416	see below	700	1"	A	
8510	see below	see below	1"	D	
8524	see below	see below	1 1/2"	D	
8530	see below	see below	2"	D	
8540	see below	see below	2 1/2"	D	
8546	see below	see below	3"	D	
8564	see below	see below	4"	D	
8566	see below	see below	5"	D	

**Sanitary Gaskets How to Order**

Part Number: 8516kit

Material: EPDM

Color: Blue (standard)

Size: 2"

Particulate Matter: 700

Color: Blue

Size (O.D.): 2"

Type: D

**WARNING**

SAFETY INFORMATION

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**Parker**

ENGINEERING YOUR SUCCESS.

### New Applications:

- Applesauce Manufacturer
- Peanut Butter Cup Manufacturer
- Multiple Large Scale Breweries
- Large Scale Spirits Manufacturer
- Large Scale Wine Producer
- Large Scale Dairy Manufacturer
- Sanitary Systems Service Provider
- Heat and Serve Meal Production Facility
- Craft Breweries (multiple locations)
- Ice Cream Equipment Manufacturer
- Sanitary Pump Manufacturer
- Large Scale Pharmaceutical Manufacturer

### Distributor Product Cards Available

The easy to use product line cards have been developed for distribution during customer calls and for customer service reference. The 4" x 6" cards provide advantages and benefits on the front side and part numbering order information on the back. They have a space to apply distributor information and are offered at no cost.

**Contact Karen Holt to order yours today!**

## Sanitary Field Sales Kit Available Now!

BPE fitting assemblies are now available to our distributors and territory managers. These kits are an excellent way to demonstrate the advantage of Parker sanitary gasket in the field. The kits will allow you to show your potential customers the ease of installation and the elimination of intrusion into their product flow.

The kits (part no. 8516kit, shown below) contain 2 BPE Ferules, a heavy duty clamp and a 8516-6-B sanitary gasket and are available for a nominal cost of \$25. Kits can be ordered with a purchase order, credit card or department charge number by contacting Karen Holt at the number below.

**Karen Holt**  
**260-894-7125 ext 240**  
**260-894-4896 fax**  
**kholt@parker.com**



## Chicago Pack Expo Take-Aways

ISS participated in the Pack Expo held in Chicago which allowed us to talk with over 300 Food and Beverage contacts. The conversations (highlighted below) focused on issues that the contacts had in day to day production and how the Parker design can help eliminate them.

### *I have difficulty getting the gasket properly aligned:*

Parker's design has tabs that will align the gasket in place during the assembly process.

### *It takes multiple technicians to install the gaskets we currently use, especially on large pipe applications:*

Parker's design will allow your technicians to snap the gaskets onto the ferrule making the assembly quick thus requiring only one technician.

### *I get materials caught in the piping system due to the rubber sticking into the flow:*

Parker's design eliminates this issue by reducing the intrusion by more than 90% over the current industry designs.

### *I need a metal detectable material so that if the rubber breaks off it can be detected down stream in the product:*

Parker's design does not intrude into the product flow therefore eliminating the opportunity for the rubber seal to break off and enter the product flow. Rather than inspect for failure, we have fixed the problem.

### *Will the Parker gasket withstand high temperatures?*

Parker's wide range of materials can withstand temperatures ranging between -103°F to + 450°F. (reference the materials chart on page 3) meeting the needs of today's system design.

If you have any questions or would like more information on the Pack Expo please contact Frank Levanduski (flevanduski@parker.com)



ENGINEERING YOUR SUCCESS.

**Together, we can preserve your product quality, and improve your bottom line.**

#### **Parker Sanitary Gaskets**

- Long-term sealability without having to re-torque
- Excellent wear performance
- Complete traceability of raw materials
- Easy installation
- Reduces the possibility of microbial growth



**Do You Need: Technical Bulletins  
Distributor Cards  
Sanitary Sales Kits**

**Contact: Karen Holt; 260-894-7125 ext 240  
260-894-7483 office fax  
kholt@parker.com**

