

Well Service Packing

No. 5266B1/USA

Parker engineers standard and custom well service packing replacements for plunger pumps

Superior Quality and Workmanship

Parker Hannifin provides well service packing replacements. Our pressure rings, header rings and female adapters are designed to retrofit current plunger sizes and designs. Parker delivers superior quality materials and workmanship to keep your equipment running longer.

Material Availability

Parker manufactures well service packings in a wide variety of materials to suit specific well conditions and operating parameters, including Nitrile, HSN/HNBR, Neoprene, Fluorocarbon, Perfluoroelastomers, filled PTFE blends and many other elastomer and plastic materials. In addition custom machined shapes (lantern rings, spacers) can be engineered to meet your total sealing system requirements.

HNBR Elastomers

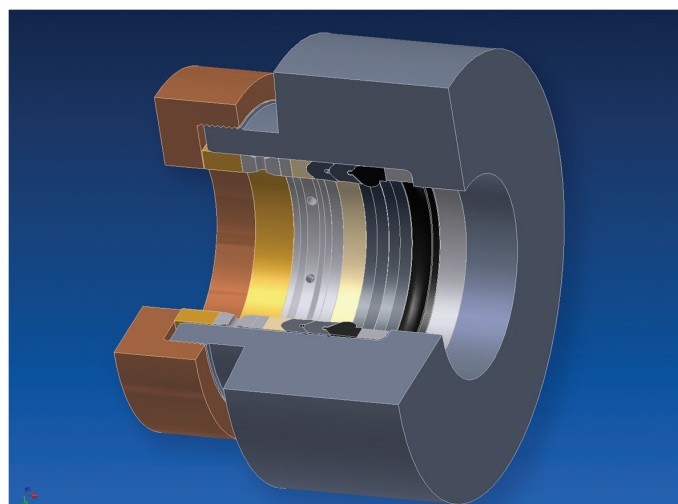
N4288A80 & N4007A90: These high tensile strength, heat resistant (to 300° F) elastomers have excellent compatibility with PPM hydrogen sulfide, corrosion inhibitors, water and oil.

Fluorocarbons (FKM)

V4208A90: Parker offers a wide range of Fluorocarbons with varying hardnesses to meet the pressure and temperature requirements of well service. V4208A90, a general purpose fluorocarbon, has excellent compression set resistance for use in high temperatures, high pressure systems, and petroleum oils and fuels.

PTFE

Parker's proprietary filled Polon™ PTFE materials feature maximum wear resistance and nearly universal chemical compatibility in well service pressure ring profiles.



UltraCOMP™

UltraCOMP engineered thermoplastics for female adapters, lantern rings and spacers are extrusion resistant up to 10,000 psi and +400°F.

Typical Physical Properties* of Well Service Materials			
	HNBR N4288	HNBR N4007	FKM V4208
Hardness, Shore A	80	90	90
Modulus @ 50% elongation, psi	524	818	662
Modulus @ 100% elongation, psi	1211	2017	1190
Ultimate tensile strength, psi	3327	4423	2060
Ultimate elongation, %	260	212	167
Specific gravity	1.26	1.22	1.82
Temp range Min / Max (°F)	-20 / +300	-20 / +300	-5 / +400

*Typical values. Should not be used as specification limits. See Catalog EPS 5260 for UltraCOMP™ material properties. See Catalog EPS 5300 for Polon™ PTFE material properties.

Contact us

Call Parker's application engineers for more information on well service packing replacements at (801) 972-3000.

Part Numbering

1	2	3	4	5	-	6
Material Code	Well Service callout	Profile Code	Cross Section	Plunger Diameter	-	Height or custom callout*
4288	WS	H	500	03500	-	D

Part Numbering

Parker well service replacement packings are identified and available to order utilizing a 6-part numbering system that specifies the size and material for the specific part you need.

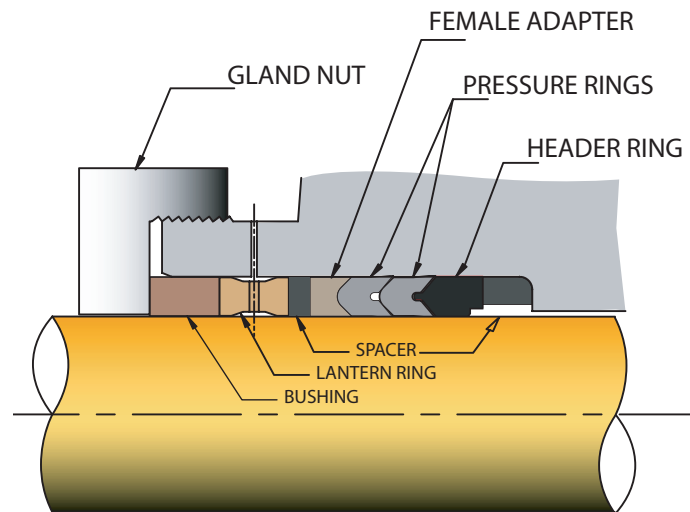
- 1- See table below for standard profiles and corresponding materials. Custom materials can be supplied for special application. Call Parker's application engineers for custom material information.
- 2- WS is Parker's callout for our line of well service packing components.
- 3- Parker can manufacture header rings, pressure rings, female adapters and many other custom shapes and spacers. See table below for standard profile codes.
- 4- Nominal cross section of the packing housing.
- 5- Nominal diameter of the Plunger.
- 6- Reserved for custom stack heights or special profiles. Consult the factory if you need a custom packing designed.

* leave blank for standard parts.

Stack Heights for Header, Pressure Rings and Female Adapters (inch)

Cross Section	Header Rings	Pressure Ring	Female Adapter
0.375	.563	.468	.250
0.500	.750	.562	.332
0.625	.938	.656	.277

Typical Packing Layout



Standard Well Service Profiles

Profile	Profile Code	Description	Available Materials	Material Description
	H	Header Ring	4288	80 Shore A durometer HNBR; Excellent abrasion resistance. Good compression set. Standard header ring material.
			4007*	90 Shore A durometer HNBR. High tensile. Excellent abrasion resistance for higher pressure, abrasive media applications.
			4208*	90 Shore A durometer general purpose fluorocarbon for high temperature applications. Excellent compression set resistance, high pressure, petroleum oils & fuels.
	V	Pressure Ring	Filled PTFE	Proprietary filled Polon PTFE for maximum wear resistance and nearly universal chemical compatibility. See Catalog EPS 5300 for material properties.
	F	Female Adapter	4685	Used for replacing brass, bronze or other metallic members in sealing systems. Non filled UltraCOMP. See Catalog EPS 5260 for material properties.