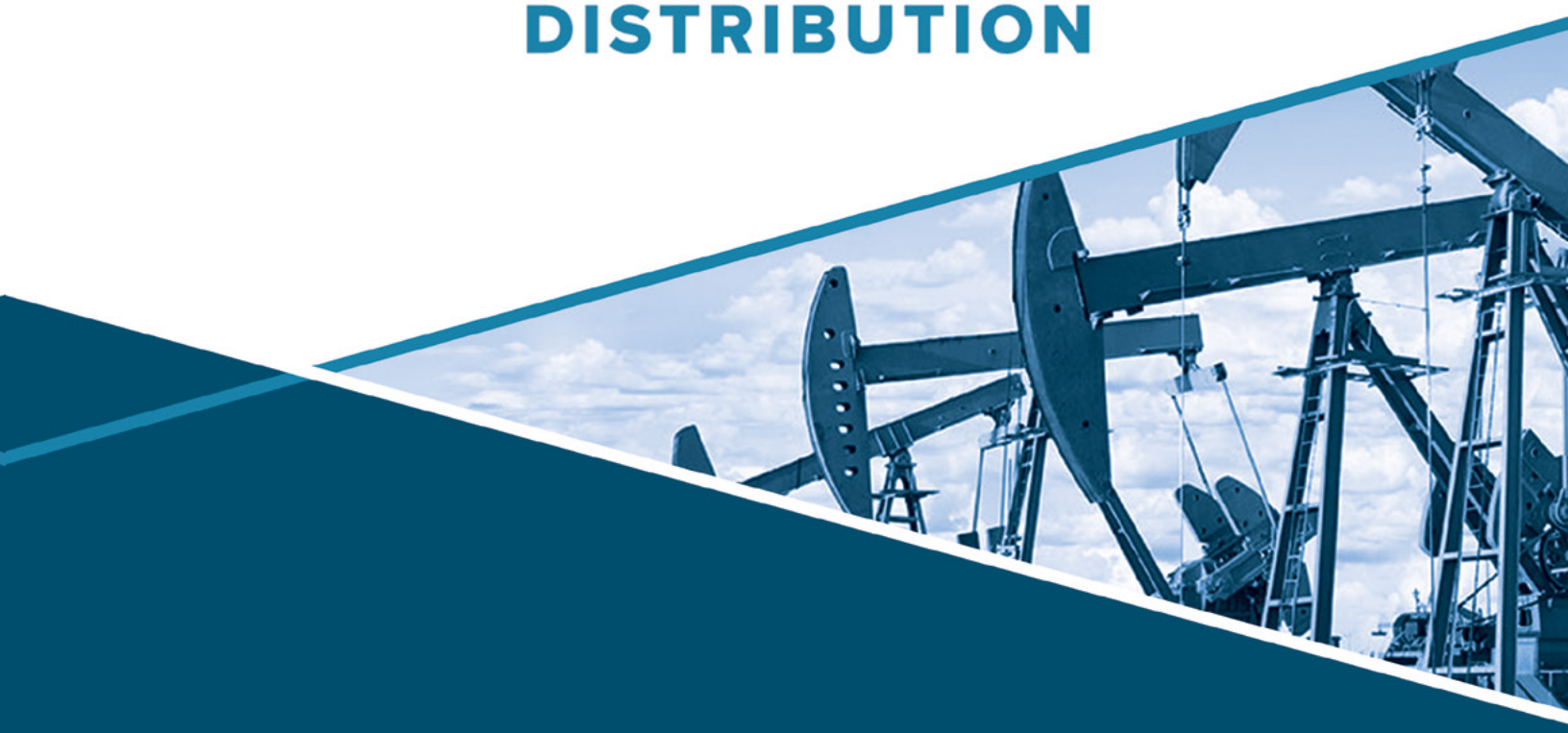
CPP
DISTRIBUTION



ALS CATALOGUE

Connecting People With Product

sales@cppdist.com | cppdist.com
TF 1.800.871.4160 | **CAN** 780.438.0483 | **USA** 832.557.5663

Disclaimer
CPP Distribution strives to ensure the accuracy of the information in the ALS Catalogue. However, occasional errors, omissions, or updates may occur. For the most current and up-to-date product details, pricing, and availability, please refer to our digital catalogue or contact our sales team directly for confirmation. CPP Distribution is not responsible for discrepancies between the printed catalogue and actual product specifications or availability.

Edition 3.0 - Updated October 2025

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CPP DISTRIBUTION

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About **CPP**

25 years ago, CPP Distribution began furnishing the artificial lift market with niche consumables. Our goal was to reduce production losses from consumable failure. Over the years, CPP has successfully completed hundreds of field trials servicing customers in every producing nation.

Artificial lift is one of our core technical focuses, and our team of industry experts comes with more than 100 years of experience. Our expertise covers many areas of production in both surface and subsurface equipment. CPP Distribution focuses our product design efforts on:

- Conventional sucker rod production
- Progressive cavity / Heavy oil production
- High-pressure liquids-rich gas production
- High-pressure sucker rod production
- Thermal / Steam sucker rod production
- High sour / Co2 production
- Plunger lift
- Gas lift

Our customers have come to rely on our solution mindset, an approach with a field-level understanding. The level of experience harnessed brings solutions not only in the laboratory but also in meeting producers' strict regulatory requirements.

As the market explores new production techniques and works harder to produce existing formations, CPP will be there working alongside the energy market. Our commitment to set our industry's curve with the best sealing and wear products worldwide will remain our core focus.

The industry's most trusted artificial lift consumables.

Seating **Cups**

SEAT-RITE

At CPP Distribution, we are proud to present our premium line of seating cups, engineered to deliver superior quality and performance across a wide range of demanding applications. Our development team has invested significant effort into formulating advanced materials capable of withstanding extreme chemical environments, various temperatures, and other challenging field conditions. Each seating cup undergoes rigorous quality control, including comprehensive 100% dimensional inspections both on and off the mandrel prior to shipment, ensuring consistent reliability and performance. Field testing has demonstrated exceptional durability, with many customers reporting successful reuse of cups after multiple seating and unseating cycles.

We are confident that our seating cups offer a robust and dependable solution, exceeding industry expectations and delivering measurable value in the field.

CHEMICAL CHART FOR SEATING CUPS IS AVAILABLE ON PAGE 10

General Services

Nylon, one of the most popular seating cup materials, is ideal for conventional oil production. The Nylon material is best suited when used with a fabric cup, making the combination well-rounded for general service applications without compromising hold down strength. Nylon has a strong resistance to chemicals, while its resistance to abrasives is moderate.

SEAT-RITE

NYLON

TEMPERATURE RATING
250°F (120°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
200% (MODERATE)

CHEMICAL COMPATIBILITY

High Temp Nylon are ideal for conventional oil production with increased bottom hole temperatures. This material is best suited when used with a High Temp fabric cup, making the combination well-rounded for High Temp service applications without compromising hold down strength. High Temp Nylon has a strong resistance to chemicals, while the resistance to abrasives is higher than standard nylon.

SEAT-RITE

HIGH TEMP NYLON

TEMPERATURE RATING
302°F (150°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY

Composite

Composite are manufactured with an impregnated fabric core for the ultimate in holding strength. The composite construction is for long-term exposure in all general service pumping applications. The impregnated construction brings a higher chemical resistance than standard rubber, while reducing any risk of breaking during seating or unseating. Composite cups, also known as fabric seating cups, are the most commonly-used material in the SRP market today. A very common selection for plunger lift equipment.

SEAT-RITE

COMPOSITE

TEMPERATURE RATING
220°F (105°C)

ABRASION RESISTANCE
MEDIUM

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY

High Temp Composite should be used when higher temperatures or increased chemical resistance is needed in a fabric reinforced cup. The increased elongation of any fabric cup, versus a plastic cup, is beneficial when seating and unseating can be expected. Operators can trust to see all Seat-Rite cups return after numerous years in service. The increased temperature rating, and increased chemical resistance make the Seat-Rite High Temp fabric cup a well-rounded, inexpensive cup for all well conditions.

SEAT-RITE

HIGH TEMP COMPOSITE

TEMPERATURE RATING
330°F (165°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY

Specialty Plastics

Peek are built to take almost any application. Peek material allows operators to cover most application without risk. It also has an extreme temperature rating, coupled with unstoppable resistance to extreme pressure and abuse. Choose Peek when nothing else works.

EXT are best when the fit and function of a Nylon cup is preferred with an increased elongation. The EXT material provides an increased resistance (inert) to all chemicals, while staying semi-flexible to prevent breaking or cracking down hole in any optimization effort. Look to run an EXT set with a High Temp fabric cup when a backup is required.

PEEK

TEMPERATURE RATING
536°F (300°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY

SEAT-RITE

EXT

TEMPERATURE RATING
392°F (200°C)

ABRASION RESISTANCE
HIGH-EXTREME

ELONGATION (BREAK STRENGTH)
250%

CHEMICAL COMPATIBILITY

SEAT-RITE

Poly Keytone offer a longer-lasting alternative to standard Nylon, delivering reliable performance in high-speed, long-stroke applications with moderate abrasives. They resist a broad range of chemicals found in oil and gas environments, including weak acids, bases, lubricants, oils, hydrogen sulfide (H_2S), and carbon dioxide (CO_2). Available in all standard sizes, with custom options upon request, Poly Keytone is ideal for demanding, chemically aggressive conditions.

POLY KEYTONES

TEMPERATURE RATING
320°F (160°C)

ABRASION RESISTANCE
MODERATE

ELONGATION (BREAK STRENGTH)
100% (LOW)

CHEMICAL COMPATIBILITY

Super Orange brings to the market a seating cup built to last through all applications, while preventing breaking and seating problems down hole. The goal for Super Orange seating cups is to replace high temperature plastics like PEEK & EXT and many other high temperature fabric materials. The Super Orange seating cup will allow a firm, secure seat each and every time in all applications, including high H2S and high temp applications. Works well in areas where Paraffin is an issue.

SUPER ORANGE

TEMPERATURE RATING
-238°F (-250°C) Cryogenic - 500°F (260°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
230%

CHEMICAL COMPATIBILITY

THT are an alternative to metal sealing assemblies. Our design allows producers the ability to seat in worn out and scored pump seating nipples. These seating cups will seat multiple times, while providing positive pressure tests each time. Our THT material is proven to last the life of bottom hole pumps in all types of thermal production from SAGD's extreme bottom hole temperatures. THT seating cups are a great alternative to EXT, XT, and PEEK seating materials. THT has a wide temperature range coupled with a chemical compatibility, providing an unstoppable cup.

THT

TEMPERATURE RATING
-446°F (-230°C) / 662°F (350°C)

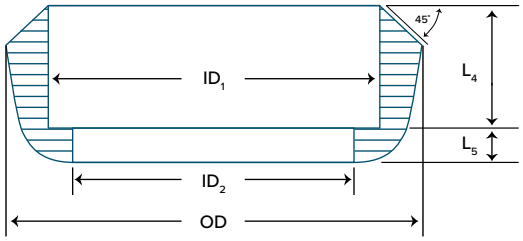
ABRASION RESISTANCE
MODERATE - HIGH

ELONGATION (BREAK STRENGTH)
230%

CHEMICAL COMPATIBILITY

Seating Nipple Reference

SEAT-RITE



Seating Cup size	Seating Nipple Bore	1000s	OD	ID1	ID2	L4	L5
1-1/16”	1.062	+30	1.082	0.860	0.687	0.095	0.375
1-1/4”	1.250	+30	1.270	0.984	0.750	0.125	0.375
		+15	1.255		0.875		
		+30	1.270				
1-3/8”	1.375	+30	1.405	1.015	0.750	0.125	0.531
		+30	1.405		0.875		
		+45	1.420				
1-1/2”	1.460	-40+30	1.486	1.160	0.875	0.154	0.593
		Base	1.500				
	1.500	+15	1.515				
		+30	1.530				
		+45	1.545				
1-3/4”	1.710	-40+30	1.730	1.411	1.187	0.165	0.656
		Base	1.740				
	1.750	+15	1.755				
		+30	1.770				
		+45	1.785				
		+60	1.800				
1-25/32”	1.780	Base	1.770	1.411	1.187	0.165	0.656
		+15	1.783				
		+30	1.800				
		+45	1.815				
		+60	1.830				
		+70	1.840				
1-7/8”		Base	1.865	1.411	1.187	0.165	0.656
		+30	1.895				
2-1/4”	2.210	-40+30	2.230	1.850	1.562	0.185	0.688
		Base	2.240				
	2.250	+15	2.255				
		+30	2.270				
		+45	2.285				
	2.280	+60	2.300				
		+70	2.310				
		+90	2.330				
2-3/4”	2.710	-40+30	2.730	2.350	2.000	0.185	0.688
		Base	2.740				
	2.750	+15	2.755				
		+30	2.770				
		+45	2.785				
	2.780	+60	2.800				
		+70	2.810				
3-3/4”	3.750	Base	3.375	3.271	2.812	0.186	0.978
		+15	3.750				
		+30	3.765				
		+45	3.780				
		+60	3.795				

Type “O”

Composite Fabric

COMPOSITE

TEMPERATURE RATING
220°F (105°C)

ABRASION RESISTANCE
MEDIUM

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY

Nylon/Plastic

NYLON

TEMPERATURE RATING
250°F (120°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
200% (MODERATE)

CHEMICAL COMPATIBILITY

Super Orange

SUPER ORANGE

TEMPERATURE RATING
-238°F (-250°C) Cryogenic - 500°F (260°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
230%

CHEMICAL COMPATIBILITY

Type-O Seating Cup Dimensions

SEATING CUPS TYPE 'O'	OUTSIDE DIAMETER		INSIDE DIAMETER		HEIGHT	HEIGHT
DESCRIPTION	API	CPP	API	CPP	API	CPP
SIZE	TOLERANCE +/-.005	TOLERANCE CPP = API +.005/-.003	TOLERANCE +.010/-0	TOLERANCE +.010/-0	TOLERANCE +.010/-0	TOLERANCE SAME AS API
1-1/2 -10-TYPE 'O'	1.490"	1.487 - 1.495	1.188 - 1.198	1.188 - 1.198	0.625 - 0.635	0.625 - 0.635
1-1/2 +70-TYPE 'O'	1.570"	1.567 - 1.575	1.188 - 1.198	1.188 - 1.198	0.625 - 0.635	0.625 - 0.635
1-3/4 +70-TYPE 'O'	1.810"	1.807 - 1.815	1.440 - 1.450	1.440 - 1.450	0.687 - 0.697	0.687 - 0.697
1-25/32 +30-TYPE 'O' (1.431" ID)	1.800"	1.797 - 1.805	1.431 - 1.441	1.431 - 1.441	0.821 - 0.831	0.821 - 0.831
1-25/32 +30-TYPE 'O' (1.471" ID)	1.800"	1.797 - 1.805	1.471 - 1.481	1.471 - 1.481	0.821 - 0.831	0.821 - 0.831
2-1/4 +70-TYPE 'O' (1.750" ID)	2.310"	2.307 - 2.315	1.750 - 1.760	1.750 - 1.760	0.750 - 0.760	0.750 - 0.760
2-1/4 +70-TYPE 'O' (1.805" ID)	2.310"	2.307 - 2.315	1.805 - 1.815	1.805 - 1.815	0.750 - 0.760	0.750 - 0.760
2-1/4 +70-TYPE 'O'-(1.805" ID 0.844" HGT)	2.310"	2.307 - 2.315	1.805 - 1.815	1.805 - 1.815	0.844 - 0.854	0.844 - 0.854
2-1/4 +70-TYPE 'O' (1.871" ID)	2.310"	2.307 - 2.315	1.871 - 1.881	1.871 - 1.881	0.750 - 0.760	0.750 - 0.760
2-1/4 +70 TYPE 'O' (1.973" ID)	2.310"	2.307 - 2.315	1.973 - 1.983	1.973 - 1.983	0.750 - 0.760	0.750 - 0.760
2-1/4 +70 TYPE 'O' (1.976" ID)	2.310"	2.307 - 2.315	1.976 - 1.986	1.976 - 1.986	0.750 - 0.760	0.750 - 0.760
2-1/4 +70 TYPE 'O' (1.981" ID)	2.310"	2.307 - 2.315	1.981 - 1.991	1.981 - 1.991	0.750 - 0.760	0.750 - 0.760

New sizes arriving daily in our warehouse. Contact sales if you have a specific size not listed above.

OFFERED IN ALL INDUSTRY REQUIRED SIZES

ALL CUPS HAVE SIZING IDENTIFICATION

Chemical **Compatibility**

RATINGS CHEMICAL EFFECT
A - NO EFFECT - EXCELLENT
B - MINOR EFFECT - GOOD
C - MODERATE EFFECT - FAIR
D - SEVERE EFFECT - NOT RECOMMENDED

	Nylon	High Temp Nylon	Composite	High Temp Composite	Peek	EXT	Super Orange	THT	Poly Keytone
Acetaldehyde[5]	C	B	D	D	A	A	A	A	A
Acetic Acid 20%	D	A	D	D	A	A	A	A	A
Acetone[6]	D	A	D	D	A	A	A	A	A
Benzyl	A	A	C	C	A	A	A	A	A
Ethyl	A	A	C	C	A	A	A	A	A
Isopropyl	C	A	D	D	A	A	A	A	A
Amines	A	A	D	D	A	A	A	A	A
Ammonia, Anhydrous	A	A	D	D	A	A	A	A	A
Ammonium Bifluoride	A	A	D	D	A	A	A	A	A
Amyl Alcohol	A	A	B	B	A	A	A	A	A
Asphalt	A	A	D	D	A	A	A	A	A
Barium Chloride	A	A	A	A	A	A	A	A	A
Benzene[2]	A	A	D	D	A	A	A	A	A
Boric Acid	A	A	A	A	A	A	A	A	A
Butadiene	D	A	D	D	A	A	A	A	A
Calcium Bisulfate	A	A	A	A	A	A	A	A	A
Calcium Chloride	D	A	C	C	A	A	A	A	A
Carbon Disulfide[2]	A	A	D	D	A	A	A	A	A
Diesel Fuel	A	A	A	A	A	A	A	A	A
Ethane	A	B	C	C	A	A	A	A	A
Ethyl Acetate[2]	A	B	D	D	A	A	A	A	A
Ethylene Chloride[2]	A	A	D	D	B	A	A	A	A
Fluorine	D	A	D	D	A	A	A	A	A
Hydraulic Oils (Petroleum)[1]	A	A	A	A	A	A	A	A	A
Hydraulic Oils (Synthetic)[1]	A	A	A	A	A	A	A	A	A
Hydrobromic Acid 20%	D	B	D	D	A	A	A	A	A
Hydrofluosilicic Acid	D	A	B	B	A	A	A	A	A
Hydrogen Peroxide	D	A	D	D	A	A	A	A	A
Ketones	B	A	D	D	A	A	A	A	A
Lubricants	A	A	A	A	A	A	A	A	A
Methanol	A	A	D	D	A	A	A	A	A
Methyl Alcohol 10%	B	A	B	B	A	A	A	A	A
Methyl Chloride	C	B	D	D	B	A	A	A	A
Methylene Chloride	A	A	D	D	A	A	A	A	A
Nitric Acid (10% Solution)	B	A	D	D	A	A	B	B	A
Paraffin	A	A	A	A	A	A	A	A	A
Phosphoric Acid (Crude)	A	A	C	C	A	A	A	A	A
Potash	A	A	A	A	A	A	A	A	A
Potassium Carbonate	A	A	C	C	A	A	A	A	A
Potassium Hydroxide (50%)	B	A	C	C	A	A	A	A	A
Propylene Glycol	B	A	C	C	A	A	A	A	A
Sodium Acetate	A	A	B	B	A	A	A	A	A
Sodium Carbonate	A	A	C	C	A	A	A	A	A
Sodium Hydroxide/Caustic Soda (20%)	C	A	C	C	A	A	A	A	A
Sodium Nitrate	A	A	C	C	A	A	A	A	A
Sodium Peroxide	A	A	C	C	A	A	A	A	A
Sodium Thiosulphate ("Hypo")	A	A	D	D	A	A	A	A	A
Sulfuric Acid (to 10%)	D	B	B	B	A	A	A	A	A
Sulfurous Acid	C	B	B	B	A	A	A	A	A
Toluene	C	B	C	C	A	A	A	A	A
Xylene[2]	C	B	C	C	A	A	A	A	A
Zinc Chloride	C	B	D	D	A	A	A	A	A

FOOTNOTES
1. P.V.C. - Satisfactory to 72°F | 2. Polypropylene - Satisfactory to 72°F | 3. Polypropylene - Satisfactory to 120°F
4. BUNA-N - Satisfactory for "O" Rings | 5. Polyacetal - Satisfactory to 72°F | 6. Ceramag - Satisfactory to 72°F

IMMERSION TEST

Simulated sour gas environment

API 6A ANNEX F IMMERSION TEST

	80% CO_2	10% H_2S	10% CH_4
CPP COMPOSITE	PASSED	PASSED	PASSED
CPP EXT	PASSED	PASSED	PASSED
NYLON	FAILED	FAILED	FAILED
PEEK	PASSED	PASSED	PASSED

FOR MORE IMMERSION TESTING RESULTS AND SERVICE PLEASE CONTACT CPP TODAY!

PA **Rings**

CHEMICAL CHART FOR PA RINGS IS AVAILABLE ON PAGE 13.

Extended Life PA Rings (EXT)

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
392°F (200°C)

ABRASION RESISTANCE
HIGH-EXTREME

ELONGATION (BREAK STRENGTH)
250%

CHEMICAL COMPATIBILITY

Super Mag Kevlar PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
330°F (165°C)

ABRASION RESISTANCE
EXTREME

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY

Nylon PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
250°F (120°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
315%

CHEMICAL COMPATIBILITY

Poly Keytone PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
320°F (160°C)

ABRASION RESISTANCE
MODERATE

ELONGATION (BREAK STRENGTH)
100% (LOW)

CHEMICAL COMPATIBILITY

Composite PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
220°F (105°C)

ABRASION RESISTANCE
MEDIUM

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY

Super Orange PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
-238°F (-250°C) Cryogenic -
500°F (260°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
230%

CHEMICAL COMPATIBILITY

High Temp Nylon PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
302°F (150°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY

THT PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
446°F (230°C) - 662°F (350°C)

ABRASION RESISTANCE
MODERATE-HIGH

ELONGATION (BREAK STRENGTH)
230%

CHEMICAL COMPATIBILITY

PEEK PA Rings

SEAT-RITE

MATERIAL PROPERTIES

TEMPERATURE RATING
536°F (300°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY

PA RING DIMENSIONS

PA RINGS	O.D.	I.D.	HEIGHT
DESCRIPTION	CPP	CPP	CPP
SIZE	+/.005"	+.005/-.000	+/.005"
1-1/4"	1.215"	0.850"	0.230"
1-1/2"	1.500"	1.140"	0.230"
1-3/4"	1.710"	1.240"	0.230"
2.000"	1.965"	1.485"	0.230"
2-1/4"	2.200"	1.590"	0.230"
2-1/2"	2.435"	1.835"	0.230"
2-3/4"	2.740"	2.090"	0.230"
3-1/4"	3.200"	2.550"	0.230"

New sizes arriving daily in our warehouse. Contact sales if you have a specific size not listed above.

Chemical **Compatibility**

RATINGS CHEMICAL EFFECT
A - NO EFFECT - EXCELLENT
B - MINOR EFFECT - GOOD
C - MODERATE EFFECT - FAIR
D - SEVERE EFFECT - NOT RECOMMENDED

	EXT	Super Mag Kevlar	Nylon	Poly Keytone	Composite	Super Orange	High Temp Nylon	THT	Peek
Acetaldehyde[5]	A	A	C	A	D	A	B	A	A
Acetic Acid 20%	A	A	D	A	D	A	A	A	A
Acetone[6]	A	A	D	A	D	A	A	A	A
Benzyl	A	A	A	A	C	A	A	A	A
Ethyl	A	A	A	A	C	A	A	A	A
Isopropyl	A	A	C	A	D	A	A	A	A
Amines	A	A	A	A	D	A	A	A	A
Ammonia, Anhydrous	A	A	A	A	D	A	A	A	A
Ammonium Bifluoride	A	A	A	A	D	A	A	A	A
Amyl Alcohol	A	A	A	A	B	A	A	A	A
Asphalt	A	A	A	A	D	A	A	A	A
Barium Chloride	A	A	A	A	A	A	A	A	A
Benzene[2]	A	A	A	A	D	A	A	A	A
Boric Acid	A	A	A	A	A	A	A	A	A
Butadiene	A	A	D	A	D	A	A	A	A
Calcium Bisulfate	A	A	A	A	A	A	A	A	A
Calcium Chloride	A	A	D	A	C	A	A	A	A
Carbon Disulfide[2]	A	A	A	A	D	A	A	A	A
Diesel Fuel	A	A	A	A	A	A	A	A	A
Ethane	A	A	A	A	C	A	B	A	A
Ethyl Acetate[2]	A	A	A	A	D	A	B	A	A
Ethylene Chloride[2]	A	A	A	A	D	A	A	A	B
Fluorine	A	A	D	A	D	A	A	A	A
Hydraulic Oils (Petroleum)[1]	A	A	A	A	A	A	A	A	A
Hydraulic Oils (Synthetic)[1]	A	A	A	A	A	A	A	A	A
Hydrobromic Acid 20%	A	A	D	A	D	A	B	A	A
Hydrofluosilicic Acid	A	A	D	A	B	A	A	A	A
Hydrogen Peroxide	A	A	D	A	D	A	A	A	A
Ketones	A	A	B	A	D	A	A	A	A
Lubricants	A	A	A	A	A	A	A	A	A
Methanol	A	A	A	A	D	A	A	A	A
Methyl Alcohol 10%	A	A	B	A	B	A	A	A	A
Methyl Chloride	A	A	C	A	D	A	B	A	B
Methylene Chloride	A	A	A	A	D	A	A	A	A
Nitric Acid (10% Solution)	A	B	B	A	D	B	A	B	A
Paraffin	A	A	A	A	A	A	A	A	A
Phosphoric Acid (Crude)	A	A	A	A	C	A	A	A	A
Potash	A	A	A	A	A	A	A	A	A
Potassium Carbonate	A	A	A	A	C	A	A	A	A
Potassium Hydroxide (50%)	A	A	B	A	C	A	A	A	A
Propylene Glycol	A	A	B	A	C	A	A	A	A
Sodium Acetate	A	A	A	A	B	A	A	A	A
Sodium Carbonate	A	A	A	A	C	A	A	A	A
Sodium Hydroxide/Caustic Soda (20%)	A	A	C	A	C	A	A	A	A
Sodium Nitrate	A	A	A	A	C	A	A	A	A
Sodium Peroxide	A	A	A	A	C	A	A	A	A
Sodium Thiosulphate ("Hypo")	A	A	A	A	D	A	A	A	A
Sulfuric Acid (to 10%)	A	A	D	A	B	A	B	A	A
Sulfurous Acid	A	A	C	A	B	A	B	A	A
Toluene	A	A	C	A	C	A	B	A	A
Xylene[2]	A	A	C	A	C	A	B	A	A
Zinc Chloride	A	A	C	A	D	A	B	A	A

FOOTNOTES
1. P.V.C. - Satisfactory to 72°F | 2. Polypropylene - Satisfactory to 72°F | 3. Polypropylene - Satisfactory to 120°F
4. BUNA-N - Satisfactory for "O" Rings | 5. Polyacetal - Satisfactory to 72°F | 6. Ceramag - Satisfactory to 72°F

IMMERSION TEST

Simulated sour gas environment

API 6A ANNEX F IMMERSION TEST

	80% CO_2	10% H_2S	10% CH_4
CPP COMPOSITE	PASSED	PASSED	PASSED
CPP EXT	PASSED	PASSED	PASSED
NYLON	FAILED	FAILED	FAILED
PEEK	PASSED	PASSED	PASSED

FOR MORE IMMERSION TESTING RESULTS AND SERVICE PLEASE CONTACT CPP TODAY!

Wiper **Rings**

CHEMICAL CHART FOR WIPER RINGS IS AVAILABLE ON PAGE 13.

HSN

MATERIAL PROPERTIES

TEMPERATURE RATING
-40°F (-40°C) - 305°F (150°C)

ABRASION RESISTANCE
VERY GOOD

CHEMICAL COMPATIBILITY

EPDM

MATERIAL PROPERTIES

TEMPERATURE RATING
-58°F (-50°C) - 300°F (148°C)

ABRASION RESISTANCE
GOOD

CHEMICAL COMPATIBILITY

FKM

MATERIAL PROPERTIES

TEMPERATURE RATING
-4°F (-20°C) - 401°F (205°C)

ABRASION RESISTANCE
GOOD

CHEMICAL COMPATIBILITY

FFKM

MATERIAL PROPERTIES

TEMPERATURE RATING
-15°F (-26°C) - 608°F (320°C)

ABRASION RESISTANCE
MEDIUM

CHEMICAL COMPATIBILITY

URETHANE

MATERIAL PROPERTIES

TEMPERATURE RATING
-31°F (-35°C) - 230°F (110°C)

ABRASION RESISTANCE
GOOD

CHEMICAL COMPATIBILITY

Valve **Cups**

CHEMICAL CHART FOR VALVE CUPS IS AVAILABLE ON PAGE 10

Nylon are ideal for conventional oil production. The Nylon material is best suited when used with a composite cup, making the combination well-rounded for general service application without compromising hold down strength.

Composite are manufactured with an impregnated fabric core for the ultimate in holding strength. The composite construction is for long-term exposure in all general service pumping applications.

SEAT-RITE

NYLON

MATERIAL PROPERTIES

TEMPERATURE RATING
392°F (200°C)

ABRASION RESISTANCE
HIGH-EXTREME

ELONGATION (BREAK STRENGTH)
250%

CHEMICAL COMPATIBILITY

SEAT-RITE

COMPOSITE

MATERIAL PROPERTIES

TEMPERATURE RATING
221°F (105°C)

ABRASION RESISTANCE
HIGH-EXTREME

ELONGATION (BREAK STRENGTH)
400%

CHEMICAL COMPATIBILITY

Rod **Guides**

Oil States Sucker Rod Guides are designed for use in artificial lift (pumping) wells to eliminate the internal tubing wear caused by the sucker rods. The sucker rod guides minimize costly metal-to-metal contact between the sucker rods and tubing. The guides also function as bearings by centralizing the sucker rods in the tubing string. Even when the tubing buckles during upstrokes, the guides help prevent contact between the rods and tubing. Friction is also reduced, which raises the overall pumping efficiency. Oil States Sucker Rod Guides are available in both snap-on and twist-on versions.

OSI Snap On Rod Guide

The standard of the industry for years, Oil States' Hi-Temp Snap-on Rod Guides are made of abrasion-resistant synthetic rubber. A spring steel clip insert is molded into the rubber guide, providing a positive grip on the sucker rod and preventing slippage in temperatures up to 300°F.

PART NUMBER	SIZE	ROD SIZE	TUBING SIZE
1025HT	1" X 2-1/2"	1"	2-7/8"
1027HT	1" X 3"	1"	3-1/2"
3420HT	3/4" X 2"	3/4"	2-3/8"
3425HT	3/4" X 2-1/2"	3/4"	2-3/8"
5820HT	5/8" X 2"	5/8"	2-7/8"
5825HT	5/8" X 2-1/2"	5/8"	2-7/8"
7820HT	3/4" X 2"	7/8"	2-3/8"
7825HT	7/8" X 2-1/2"	7/8"	2-7/8"
CPP-7825XL	7/8" X 2-1/2"		

OSI Twist On Rod Guide

Oil States' Twist-on Rod Guides contain no metal clip insert. Tests, however, indicate an excellent holding strength due to design and materials. The twist-on style rod guide can easily be installed with a pipe wrench and withstand temperatures up to 200°F.

PART NUMBER	SIZE	TUBING SIZE
TO-3420	3/4" Rod X 2" Tubing	2-3/8"
TO-3425	3/4" Rod X 2-1/2" Tubing	2-7/8"
TO-7820	7/8" Rod X 2" Tubing	2-3/8"
TO-7825	7/8" Rod X 2-1/2" Tubing	2-7/8"

Stuffing Box **Packing**

At CPP Distribution, we understand the importance of having the right stuffing box packing for your well conditions. That's why we offer a broad range of sizes, materials, and designs to best fit your configuration. Our innovative materials for high performance applications ensure that our products exceed traditional alternatives in both quality and durability. CPP Distribution prioritizes quality control above all else, requiring all packing to undergo a 100 percent check before shipping. Our products are compatible with various models of stuffing boxes, making them the perfect choice for mild or extreme applications. Field-tested and proven, you can trust that our products will perform at the highest level.

Cone Packing

Gold Flake and Super Gold Cone Packing is widely used in sweet to moderate sour crude production with high oil-to-water ratios.

It's best suited for wells producing medium to heavy oil (20-30 API), and it handles moderate produced heat along with higher than average friction heat. Ideal for moderate to heavy abrasives, when additional lubrication is not required.

GOLD FLAKE & GOLD FLAKE +

TEMPERATURE RATING
Gold Flake | 202°F (94°C)
Gold Flake + | 302°F (150°C)

MAX PRESSURE
2,500 PSI

H2S: MAX 5% | **CO2:** LOW RESISTANCE

ABRASIVE RESISTANCE:
MODERATE-HEAVY

Composite brass impregnated rubber helps dissipate friction heat, while maintaining rubber integrity. It also acts as a cleaner, scraping residual oil away from the turn around.

SUPER GOLD FLAKE & SUPER GOLD FLAKE +

TEMPERATURE RATING
Super Gold Flake | 250°F (121°C)
Super Gold Flake + | 350°F (177°C)

MAX PRESSURE
2,500 PSI

H2S: MAX 5% | **CO2:** LOW RESISTANCE

ABRASIVE RESISTANCE:
MODERATE-HEAVY

Cone Packing

Kevlar Brass Cone Packing is engineered for high concentrations of H2S & CO2 in all applications, including steam injection. Kevlar brass is manufactured with fabric -reinforced contact points for long -lasting performance in heavy abrasives and viscous fluids. Kevlar Brass packing is said to be one of the best extreme service packings on today's market.

KEVLAR BRASS

TEMPERATURE RATING
653°F (345°C) Bursts over 550°C

MAX PRESSURE
5,000 PSI

H2S: 30% | **CO2:** 30%

ABRASIVE RESISTANCE:
HEAVY

Fluid Lip Cone Packing, allows producers an alternative to standard gland activated sealing. Pressure activated sealing allows for less stuffing box adjustments when the applications produce less fluid and fluid pressures changes at times. The Fluid Lip design is ideal when gas pressure continues to push fluid past conventional single stack stuffing boxes.

FLUID LIP

TEMPERATURE RATING
302°F (150°C)

MAX PRESSURE
5,000 PSI

H2S: 15% | **CO2:** 20%

ABRASIVE RESISTANCE:
HIGH TO EXTREME

Soft Rubber Cone Packing is widely used in all general service applications and is ideal for sweet crude production. Soft rubber does well in high oil-to-water ratios. It's engineered to function well in light oils with minimal abrasion present and makes a great packing for OEM manufacturers.

SOFT RUBBER & SUPER + SOFT RUBBER

TEMPERATURE RATING
Soft Rubber | 202°F (94°C)
Super + Soft Rubber | 302°F (150°C)

MAX PRESSURE
2,500 PSI

Soft Rubber | **H2S:** 5% | **CO2:** 2%
Super + Soft Rubber | **H2S:** 2% | **CO2:** 10%

ABRASIVE RESISTANCE:
LOW

Cone Packing

EPDM Cone Packing is an excellent choice for those looking for an economical solution for sealing fluids at higher temperatures. It offers a cost-effective alternative to higher-priced packing options while providing adequate sealing in thermal flood production. In addition, EPDM cone packing is ideal for moderate to higher water cut applications, providing moderate abrasion resistance. Its versatility and reliability make it a popular choice for sealing applications across various industries.

EPDM

TEMPERATURE RATING
425°F (218°C)

MAX PRESSURE
2,500 PSI

H2S: 5% | **CO2:** N/A

ABRASIVE RESISTANCE:
MODERATE

Hard Rubber Cone Packing is widely used in all general service applications, and it's ideal for sweet crude production. Hard rubber does well in high oil-to-water ratios. It's engineered to function well in light oils with abrasives present and makes great packing for OEM manufacturers. Hard rubber compounds resist gland adjustment, while maintaining a positive seal in oil production.

HARD RUBBER

TEMPERATURE RATING
202°F (94°C)

MAX PRESSURE
2,500 PSI

H2S: 6% | **CO2:** 2%

ABRASIVE RESISTANCE:
HEAVY

HSN Cone Packing performs better than soft rubbers and Teflon filled materials. Normally, general service packing becomes blistered or easily fatigued by production bi-products. The HSN material has an increased chemical resistance. The abrasion resistance of HSN elastomers is proven to be better than most general service rubber blends. This allows for longer life when lubrication is absent and the hydrocarbon presence is higher than normal concentrations.

HSN

TEMPERATURE RATING
329°F (165°C)

MAX PRESSURE
2,500 PSI

H2S: 10% | **CO2:** 20%

ABRASIVE RESISTANCE:
MODERATE

Cone Packing

Super Orange Cone Packing is the latest breakthrough in packing technology, offering an unmatched compression set that allows for increased load and creates a seal without reducing the life of the packing set. This hybrid polymer is highly resistant to all hydrocarbons, making it inert to CO2 and H2S. It also provides producers with the flexibility to pump longer, faster, and dryer without added packing failures. Super Orange Cone Packing is the “king of cones” that will meet all your needs.

SUPER ORANGE

TEMPERATURE RATING
257°F (125°C)

MAX PRESSURE
5,000 PSI (5,000+ WHEN INERT)

H2S: NO EFFECT | **CO2:** NO EFFECT

ABRASIVE RESISTANCE:
MODERATE-HEAVY

Rainbow Cone Packing are excellent in low gas-to-oil ratios and high water cut wells, performing well at 90+ percent water cut. Rainbow boasts a high tensile strength, making this a great packing for high-performance wells. Ideal for well-lubricated applications with continuous production. Look to try our Rainbow Ring packing in all light fluids.

RAINBOW

TEMPERATURE RATING
400°F (204°C)

MAX PRESSURE
2,500 PSI

H2S: 12% | **CO2:** 15%

ABRASIVE RESISTANCE:
MINIMAL

Urethane Cone Packing, a workhorse in heavy abrasive fluids, has the ability to strip all wax bi-products. It’s ideal for work with heavy fluids in any application. Urethane is traditionally used in mid to heavy viscosities when pump off is common. Not ideal for high water cuts.

URETHANE

TEMPERATURE RATING
230°F (110°C)

MAX PRESSURE
5,000 PSI

H2S: 10% | **CO2:** 8%

ABRASIVE RESISTANCE:
HEAVY-EXTREME

Special Lube (General Service) Special Lube packing has been designed for sweet production, with high oil to water ratios. The external coating provides additional lubrication and seal ability in worn equipment. Recommended for gas locking or pump off situations. Special lube will also reduce rod noise.

SPECIAL LUBE

TEMPERATURE RATING
302°F (150°C)

MAX PRESSURE
2,500 PSI

H2S: 5% | **CO2:** 10%

ABRASIVE RESISTANCE:
MINIMAL

Cone Packing

Vanilla Cone Packing uses patent polymer technology, providing suitable compression sets for all conditions. Conventional elastomeric properties bring complications during spring and fall weather changes. Our polymer engineers have designed not only a self-lubricated product like most Teflon impregnated materials, but also a product requiring less real-time adjustments when evening or seasonal temperatures change rapidly. These temperature changes cause seeping and emission leaks beyond producers' expectations.

VANILLA CONE

TEMPERATURE RATING
257°F (125°C)

MAX PRESSURE
5,000 PSI (5,000+ WHEN INERT)

H2S: NO EFFECT | **CO2:** NO EFFECT

ABRASIVE RESISTANCE:
LOW - MODERATE

Teflon Filled Cone Packings has a number of benefits to pumpers. CPP Teflon Filled (Soft) is one of our most popular packings. Teflon Soft can be recommended in sweet or light to moderate crude productions. It's ideal for long stroking, high-speed pumping, with limited or intermittent lubrication present. Look to our Teflon 85 & Teflon 95 for a higher performance in hydrocarbons as well as pressure resistance

TEFLON

TEMPERATURE RATING
202°F (94°C)

MAX PRESSURE
2,500 PSI

H2S: 5% | **CO2:** 5%

ABRASIVE RESISTANCE:
MINIMAL

Teflon 85 is the original improvement to generic Teflon filled packings. This harder material was built with the operator in mind. Teflon 85 withstands gland pressures and well fluid pressures. It's a long lasting packing in abrasive environments and is ideal for heavier fluid with moderate to heavy particles like sand. Teflon 85 is self-lubricating in both gas locking and pump off situations. Helpful when larger areas are to be covered from location to location.

TEFLON 85

TEMPERATURE RATING
302°F (150°C)

MAX PRESSURE
2,500 PSI

H2S: 5% | **CO2:** 10%

ABRASIVE RESISTANCE:
MODERATE

Cube Cone Packing, has a unique design specifically for high paraffin or sand-producing wells. The incorporated materials allow for polish rod lubrication as well as aggressive stripping, allowing for sufficient sealing to take place. In addition to stripping, Cube Cone Packing resists over tightening, as well as packing failure during pump off.

CUBE

TEMPERATURE RATING
302°F (150°C)

MAX PRESSURE
2,500 PSI

H2S: 10% | **CO2:** 15%

ABRASIVE RESISTANCE:
HEAVY-EXTREME

Cone Packing

Lappin tech Cone Packing is built with braided rope packing inserts for advanced sealing when polish rod conditions are marginal. Look to use LappinTech® when fluid lubrication is absent. Ideal for long, fast-stroking wells, with moderate to high water cuts. A high-performing product in salt water.

LAPPIN TECH

TEMPERATURE RATING
482°F (250°C)

MAX PRESSURE
2,500 PSI

H2S: 7% | **CO2:** 11%

ABRASIVE RESISTANCE:
LOW-MODERATE

Steam Seal Cone Packing is built to withstand extreme temperatures, pressure, and extended production cycles. It's designed to suit any polish rod material. Steam Seal is manufactured from high-quality abrasive materials, specifically to disperse high heat, while maintaining a positive seal on break-in. Steam Seal is the world leader in thermal protection.

STEAM SEAL

TEMPERATURE RATING
572°F (300°C) Bursts over 330°C

MAX PRESSURE
5,000 PSI

H2S: 15% | **CO2:** 20%

ABRASIVE RESISTANCE:
HIGH-EXTREME

The Completion King Packing has been designed with one application in mind: new completions. After a well has been drilled, fractured, and tested, producers have come to expect application changes overnight when bringing production online. In the infant days of some new completions, operators are faced with an off-the-shelf stuffing box typically furnished with import soft rubber, which is met with some of the most abrasive fluids a well may see in its life. The Completion King packing is a 6-cone set for the most popular cone stuffing boxes that brings a combination built for abuse. The set will handle extreme abrasion, high friction temps from gland loading or over tightening, and keep the polish rod clean from frac debris being pumped around on clean out.

THE COMPLETION KING

TEMPERATURE RATING
302°F (150°C)

MAX PRESSURE
2,500 PSI

H2S: 10% | **CO2:** 15%

ABRASIVE RESISTANCE:
EXTREME

The Completion King packing combination set was one of the pioneers in combination packing culture—something we have all come to understand and recognize as best practice.

Did you know we sell singles as well as custom sets?

Contact our sales team today!

Donut Cone Packing

Donut Cone Packings are best suited when a cone packing profile is preferred. Donut Cone excels when limited lubrication from gas locking or pump occurs frequently. This unique design of cone packing has a press-fit lubrication ring that helps cool and lubricate the polish rod at any stroke speed. Operators can expect a positive seal while sealing lighter fluids and have confidence with heavier produced products.

RED SEAL
WHOLESALE SUPERIORITY

DONUT CONE

TEMPERATURE RATING
202°F (94°C)

MAX PRESSURE
2,500 PSI

H2S: 5% | **CO2:** 2%

ABRASIVE RESISTANCE:
MODERATE

DONUT CONE - SOUR SERVICE

TEMPERATURE RATING
329°F (165°C)

MAX PRESSURE
2,500 PSI

H2S: 10% | **CO2:** 20%

ABRASIVE RESISTANCE:
MODERATE

Ratigan Stuffing Box Rubber

GOLD FLAKE	GRAPHITE	NBR	TEFLON	HNBR
TEMPERATURE RATING 302°F (150°C)	**TEMPERATURE RATING** 302°F (150°C)	**TEMPERATURE RATING** 302°F (150°C)	**TEMPERATURE RATING** 176°F (80°C)	**TEMPERATURE RATING** 329°F (165°C)
H2S: 5% I **CO2:** 5%	**H2S:** 5% I **CO2:** 5%	**H2S:** 2% I **CO2:** 5%	**H2S:** 2% I **CO2:** 5%	**H2S:** 10% I **CO2:** 20%
ABRASIVE RESISTANCE LOW-MODERATE	**ABRASIVE RESISTANCE** LOW-MODERATE	**ABRASIVE RESISTANCE** LOW-MODERATE	**ABRASIVE RESISTANCE** LOW-MODERATE	**ABRASIVE RESISTANCE** LOW-MODERATE

Donut Packing

If you're struggling with traditional cone packing in applications with high-fluid pressure, consider CPP Donut Packing. Its unique self-activating profile creates a tighter seal as flow line pressure increases, providing superior performance compared to cone packing. CPP has also improved its inserts to offer added protection in high-speed or pump-off conditions. Made with advanced compounds, this packing solution is an excellent alternative to cone packing for both general service and sour service applications. Trust CPP Donut Packing to meet and exceed your operator's expectations.

RED SEAL
WHOLESALE SUPERIORITY

NBR
TEMPERATURE RATING 230°F (110°C)
MAX PRESSURE 5,000 PSI
H2S: 2% I **CO2:** 5%
ABRASIVE RESISTANCE MODERATE

HNBR
TEMPERATURE RATING 329°F (165°C)
MAX PRESSURE 5,000 PSI
H2S: 10% I **CO2:** 20%
ABRASIVE RESISTANCE MODERATE

AFLAS
TEMPERATURE RATING 450°F (232°C)
MAX PRESSURE 5,000 PSI
H2S: 35% I **CO2:** 15%
ABRASIVE RESISTANCE MODERATE

SUPER ORANGE
TEMPERATURE RATING 257°F (125C)
MAX PRESSURE 5,000 PSI
H2S: NO EFFECT **CO2:** NO EFFECT
ABRASIVE RESISTANCE HEAVY TO EXTREME

Slim Hole Packing

Fluid Seal Packing is tailored for sweet, low- pressure production. Designed with a long, reinforced sealing lip, it allows for adequate sealing in all low-pressure applications. A preferred product in light oil production.

FLUID SEAL

TEMPERATURE RATING
250°F (125°C)

MAX PRESSURE
2,000 PSI

H2S: 4% | **CO2:** 8%

ABRASIVE RESISTANCE:
MINIMAL-MODERATE

Super Orange VEE Packing elevates your pumping experience. The innovative hybrid polymer is designed to enhance flexibility, speed, and reliability for producers. The center rings effortlessly create a tight seal under pressure, maximizing performance even in low-emission environments or under high pressures. Experience unprecedented efficiency in your operations. Super Orange is a low pressure design built to last under extreme loads.

SUPER ORANGE

TEMPERATURE RATING
257°F (125°C)

MAX PRESSURE
8,500 PSI

H2S: NO EFFECT | **CO2:** NO EFFECT

ABRASIVE RESISTANCE:
EXTREME

Sour Seal VEE Packing - With the increasing demand for higher performance polish rod packing required for greater H2S content and higher pressures, CPP has engineered SOUR SEAL. Designed to suit all polish rods and manufactured from the highest-quality, fully reinforced sour resistant materials, SOUR SEAL is the answer for sour service high-pressure well applications.

SOUR SEAL

TEMPERATURE RATING
325°F (163°C)

MAX PRESSURE
10,000 PSI

H2S: 25% | **CO2:** 10%

ABRASIVE RESISTANCE:
MINIMAL

Sour Seal VEE Packing FKM, an economical compound designed for applications requiring sealing in thermal flood production with higher fluid temperatures. This innovative packing solution offers a cost-effective alternative to higher-priced options, providing adequate sealing performance. Additionally, the EPDM cone packing included in this product ensures reliable sealing in moderate to higher water cut applications, while offering moderate abrasion resistance.

SOUR SEAL FKM

TEMPERATURE RATING
464°F (240°C)

MAX PRESSURE
10,000 PSI

H2S: 20% | **CO2:** 5%

ABRASIVE RESISTANCE:
MINIMAL

Rainbow Ring Packing is excellent in low gas-to -oil rations and high water cut wells, performing well at 90+ percent water cut. Look to try our Rainbow Cone packing in all light fluids. Rainbow boasts a high tensile strength, making this a great packing for high -performance wells. Ideal for well -lubricated applications with continuous production. Look to try our Rainbow Cone packing in all light fluids.

RAINBOW RING

TEMPERATURE RATING
400°F (204°C)

MAX PRESSURE
2,500 PSI

H2S: 12% | **CO2:** 15%

ABRASIVE RESISTANCE:
MINIMAL

Special Vee Packing comes in all sizes and fits all OEM high-pressure equipment. It's specifically designed for high-pressure pumping applications. Special Vee is ideal for sweet to moderate sour environments. The multi-lip functioning design allows for expansion and contraction of sealing lips while pumping. This results in a longer life before change out.

SPECIAL VEE

TEMPERATURE RATING
250°F (125°C)

MAX PRESSURE
10,000 PSI

H2S: 8% | **CO2:** 15%

ABRASIVE RESISTANCE:
MINIMAL

Steam Seal Ring Packing is a high-performance material built to withstand extreme temperatures, pressure, and extended production cycles. It's designed to suit any polish rod. Steam Seal is manufactured from high-quality abrasive materials, specifically to disperse high heat, while maintaining a positive seal on break-in.

STEAM SEAL RING

TEMPERATURE RATING
572°F (300°C) Bursts over 350°C

MAX PRESSURE
5,000 PSI

H2S: 15% | **CO2:** 20%

ABRASIVE RESISTANCE:
HIGH-EXTREME

Lappin Tech Ring Packing is built with braided rope packing inserts for advanced sealing when polish rod conditions are marginal. Look to use LappinTech® when fluid lubrication is absent. Ideal for long, fast stroking wells with moderate to high water cuts. A high-performing product in salt water.

LAPPIN TECH

TEMPERATURE RATING
482°F (250°C)

MAX PRESSURE
2,500 PSI

H2S: 8% | **CO2:** 12%

ABRASIVE RESISTANCE:
LOW-MODERATE

Kevlar Brass Ring Packing is engineered for high concentrations of H2S & CO2 in all applications, including steam injection. Kevlar Brass is manufactured with fabric-reinforced contact points for long-lasting performance in heavy abrasives and viscous fluids. Kevlar Brass packing is said to be one of the best extreme service packings on today's market.

KEVLAR BRASS

TEMPERATURE RATING
653°F (345°C) Bursts over 550°C

MAX PRESSURE
2,500 PSI

H2S: 30% | **CO2:** 30%

ABRASIVE RESISTANCE:
HEAVY

CROWN RING W/ GRAPHITE

TEMPERATURE RATING
302°F (150°C)

H2S: 15% | **CO2:** 20%

ABRASIVE RESISTANCE
HIGH

CROWN RING W/ SOFT RUBBER

TEMPERATURE RATING
302°F (150°C)

H2S: 2% | **CO2:** 5%

ABRASIVE RESISTANCE
LOW

CROWN RING W/ TFE FILLED

TEMPERATURE RATING
302°F (150°C)

H2S: 2% | **CO2:** 5%

ABRASIVE RESISTANCE
MEDIUM

Gland Inserts

If you are looking to replace gland bushing inserts for your OEM stuffing boxes, CPP is your go-to solution. Our gland sets come in two pieces and are made with Delrin or Brass for superior performance and lubrication. Our components surpass OEM dimensions specifications ensuring top quality. For the most effective results, replace gland bushing when replacing packing sets. Choose CPP for reliable and long-lasting gland bushing inserts.

Stuffing Box Configuration List

FMC

THERMAL

PACKING CONFIGURATION:
OPTION 1:
Upper - 1 BTM Cone | 4 Top Cones
Lower - 1 Set - PR X 2-1/4" X 3" Ring Packing

OPTION 2:
Upper - PR X 2.25" X 3" Ring Packing
Lower - PR X 2.25" X3" Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

NEGLAR

ROD KNUCKLE

PACKING CONFIGURATION:
Upper - 1 set - PR X 2-1/4" X 3" Ring Packing
Lower - 1 set - PR X 2-1/4" X 3" Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DOMINO

NACE/SINGLE

PACKING CONFIGURATION:
1 set - PR X 2-1/4" X 3" Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

WIDGET DESIGN

SB-10

PACKING CONFIGURATION:
6 Ring set - PR X 2-1/4" x 4-1/2" Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

PRODUCTION SAFETY SUPPLY

PACKING CONFIGURATION:
1 Set - PR X 2-1/4" X 4" Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DOUBLE E

STANDARD

PACKING CONFIGURATION:
PR X 2-1/8" X 2-1/2" Rubber Vee Packing

ALTERNATIVE: PACKING:
Limited Options Available
Contact CPP for technical support

H2S SERVICE

PACKING CONFIGURATION:
PR X 2-1/8" X 2-1/2" Sour Service Vee Packing

ALTERNATIVE: PACKING:
Limited Options Available
Contact CPP for technical support

RED WING

SUPER B7

PACKING CONFIGURATION:
Upper - 1 set -
PR X 2-1/4" X 3" High Pressure Vee Packing
Lower -1 set -
PR X 2-1/4" X 4-1/2" High Pressure Vee Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

RED M

PACKING CONFIGURATION:
1 set -
PR X 2-1/4" X 4" High Pressure Vee Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

TECH WEST

HALTER SINGLE

PACKING CONFIGURATION:
3 rings - PR X 2-1/4" Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

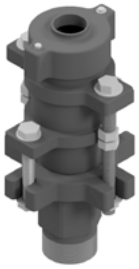
THERMAL SINGLE

PACKING CONFIGURATION:
4 rings - PR X 2-1/4" Thermal Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Stuffing Box Configuration List

WNS LOWERY



SINGLE

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones
Night Cap - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DUAL

PACKING CONFIGURATION:
Lower 1 BTM Cone | 1 Top Cone
Middle 1 BTM Cone | 3 Top Cones
Night Cap - 1 Top or BTM Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

TEE BASE

PACKING CONFIGURATION:
Night Cap - 1 Top Cone
Lower - 1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BIG BOY SERIES

PACKING CONFIGURATION:
Upper - 3 Dome Packing Rings
Lower - 2 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

PC - BIG BOY

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Middle - 3 Dome Packing Rings
Lower - 2 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

HYBRID FLAPPER

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Lower - 3 Dome Packing Rings

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

SKINNER

SINGLE

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones
Night Cap - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DUAL

PACKING CONFIGURATION:
Lower - 1 BTM Cone | 1 Top Cone
Middle - 1 BTM Cone | 3 Top Cones
Night Cap - 1 Top or BTM Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

TEE BASE

PACKING CONFIGURATION:
Night Cap - 1 Top Cone
Lower - 1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

X SINGLE

PACKING CONFIGURATION:
PR x 2-1/2" x 1" Crown Rings

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

X CROSS TWIN

PACKING CONFIGURATION:
Type "B" Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

JACK - REGULAR THREAD

PACKING CONFIGURATION:
PR x 2-1/2" Crown Rings

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Stuffing Box Configuration List

NOV

SINGLE

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cone
Night Cap - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DOUBLE PACK

PACKING CONFIGURATION:
Lower 1 BTM Cone | 1 Top Cone
Middle 1 BTM Cone | 3 Top Cones
Night Cap - 1 Top or BTM Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BIG STUFF

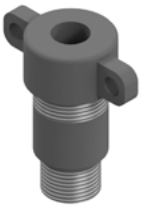
PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones (Inverted)

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BIG STUFF (DPSB)

PACKING CONFIGURATION:
Upper - 1 BTM Cone | 3 Top Cones (Inverted)
Lower - 2 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support



NACE BIG STUFF

PACKING CONFIGURATION:
1 Bottom Cone | 3 Top Cones (Inverted)

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

NACE BIG STUFF (DPSB)

PACKING CONFIGURATION:
Upper - 1 BTM Cone | 3 Top Cones (Inverted)
Lower - 2 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

CLASSIC POLLUTION CONTROL (PCSB)

PACKING CONFIGURATION:
Upper -
1 Set Rubber Vee Packing PR X 2-1/2" X 3"
Middle - 1 BTM Cone | 3 Top Cone
Lower -
2 Top Cones or 1 BTM Cone | 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

NACE BIG STUFF (PCSB)

PACKING CONFIGURATION:
Upper - 1 BTM Cone | 3 Top Cones
Middle - 1 BTM Cone | 3 Top Cones
Lower - 2 Top Cones or 1 BTM Cone | 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Hercules HP Flapperball

PACKING CONFIGURATION:
Upper - PR X 2.25" X 3" Ring Packing
Lower - 1 BTM Cone | 1 Top cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

RATIGAN

NO. 176

PACKING CONFIGURATION:
2 Ratigan Packing Elements

ALTERNATIVE: PACKING:
Limited Options Available
Contact CPP for technical support

NO. 175

PACKING CONFIGURATION:
2 Ratigan Packing Elements

ALTERNATIVE: PACKING:
Limited Options Available
Contact CPP for technical support

Stuffing Box Configuration List

HARBISON FISCHER

HIGH TEMP/HIGH PRESSURE

PACKING CONFIGURATION:
Upper - PR X 2-1/4” X 2-1/2” High Temp Packing
Lower - PR X 2-1/4” X 2-1/2” High Temp Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DL - SERIES

PACKING CONFIGURATION:
PR X 2-1/4” X 2-1/2” Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

L - SERIES

PACKING CONFIGURATION:
PR X 2-1/4” X 2-1/2” Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

POLLUTION CONTROL

PACKING CONFIGURATION:
Upper - PR X 2-1/4” X 2-1/2” Fluid Seal Packing
Lower - PR X 2-1/4” X 2-1/2” Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

PRO ALIGN

PACKING CONFIGURATION:
Upper - PR X 2-1/4” X 2-1/2” Vee Packing
Lower - 1 BTM Cone | 3 Tops Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

QUICK SEAL

PACKING CONFIGURATION:
Upper - PR X 2-1/4” X 3” Vee Packing
Lower - 1 BTM Cone | 3 Tops Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

MOST

CLASSIC

PACKING CONFIGURATION:
Upper -
PR X 2-1/4” X 2-1/2” High Temp Packing
Lower -
PR X 2-1/4” X 2-1/2” High Temp Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

CLASSIC DUAL

PACKING CONFIGURATION:
PR X 2-1/4” X 2-1/2” Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

POLLUTION CONTROL

PACKING CONFIGURATION:
PR X 2-1/4” X 2-1/2” Fluid Seal Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

HIGH PRESSURE

PACKING CONFIGURATION:
Upper - PR X 2-1/4” X 2-1/2” Vee Packing
Lower - 1 BTM Cone | 3 Tops Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

GRIZZLY

GESB

PACKING CONFIGURATION:
1 set -
PR X 2-1/4” X 3” High Pressure Vee Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Stuffing Box Configuration List

SPM WEIR

W-IVSB

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-IVSBT

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-SB CLASSIC

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cone
Night Cap - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-SBT TEE

PACKING CONFIGURATION:
Night Cap - 1 Top Cone
Lower - 1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-DPSB DOUBLE PACK

PACKING CONFIGURATION:
Lower - 1 BTM Cone | 1 Top Cone
Middle - 1 BTM Cone | 3 Top Cones
Night cap - 1 Top or BTM Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-IVDPSB INVERTED DOUBLE PACK

PACKING CONFIGURATION:
Upper - 1 BTM Cone | 3 Top Cones
Lower - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-BSDP BIG SHOT DOUBLE

PACKING CONFIGURATION:
Upper - 1 BTM Cone | 3 Top Cones
Lower - 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

W-PCDP POLLUTION CONTROL DUAL PACK

PACKING CONFIGURATION:
Upper -
1 Set Rubber Vee Packing PR X 2-1/2" X 3"
Middle - 1 BTM Cone | 3 Top Cones
Lower - 2 Top Cones or 1 BTM Cone | 1 Top Cone

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

HIGH TEMPERATURE

PACKING CONFIGURATION:
Upper -
PR X 2-1/4" X 3" High Temp Ring Packing
Lower -
PR X 2-1/4" X 3" High Temp Ring Packing

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

WSI

BSSP

PACKING CONFIGURATION:
1 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BSTB

PACKING CONFIGURATION:
2 BTM Cone | 3 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BSDP

PACKING CONFIGURATION:
1 BTM Cone | 5 Top Cones

ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Stuffing Box Configuration List

WSI (CON'T)

PCDP

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Lower - 1 BTM Cone / 5 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

PCDP - 5K

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Lower - 3 Dome Packing
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BSPCDP

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Lower - 1 BTM Cone / 5 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

BSPCDP - 5K

PACKING CONFIGURATION:
Upper -
PR X 2-1/2" X 3" High Pressure Vee Packing
Lower - 3 Dome Packing
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

SPSB

PACKING CONFIGURATION:
1 BTM Cone / 4 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

TBSB

PACKING CONFIGURATION:
2 BTM Cone / 4 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

DPSB

PACKING CONFIGURATION:
Upper - Lower 1 BTM Cone / 1 Top Cone
Middle - 1 BTM 3 Top Cones
Night Cap - 1 Top or BTM Cone
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

IVSB

PACKING CONFIGURATION:
Inverted 1 BTM Cone / 3 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

IVTBSB

PACKING CONFIGURATION:
Inverted 2 BTM Cone / 3 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

IVDPSB

PACKING CONFIGURATION:
Inverted 1 BTM Cone / 5 Top Cones
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

JSB

PACKING CONFIGURATION:
PR x 2-1/2" x 5" Crown Rings
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

WSB

PACKING CONFIGURATION:
PR X 2-1/2" X 3" Crown Rings
ALTERNATIVE: PACKING:
Options Available
Contact CPP for technical support

Cone Packing Material Data

PACKING MATERIAL	PERFORMANCE IN STREAM	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	WATER CUT SEALABILITY	ABRASION RESISTANCE	SEALABILITY	COEFFICIENT OF FRICTION
Gold Flake	POOR	202	94	2,500 PSI	5%	2%	GOOD	MODERATE TO HEAVY	GOOD	0.14 - 0.09
Gold Flake +	GOOD	302	150	2,500 PSI	5%	10%	GOOD	MODERATE TO HEAVY	GOOD	0.14 - 0.10
Super Gold	POOR	202	94	2,500 PSI	5%	2%	GOOD	MODERATE TO HEAVY	GOOD	0.14 - 0.09
Super Gold +	GOOD	302	150	2,500 PSI	5%	10%	GOOD	MODERATE TO HEAVY	GOOD	0.14 - 0.10
Kevlar Brass	EXCELLENT	653	345	5,000 PSI	30%	30%	POOR	HEAVY	GOOD	0.3 - 0.5
Fluid Lip	POOR	302	150	5,000 PSI	15%	20%	GOOD	HIGH TO EXTREME	EXCELLENT	0.12 - 0.13
Soft Rubber	N/A	202	94	2,500 PSI	5%	2%	EXCELLENT	LOW	EXCELLENT	0.7 - 0.8
Soft Rubber +	MODERATE	302	150	2,500 PSI	2%	10%	EXCELLENT	LOW	EXCELLENT	0.7 - 0.8
EPDM	GOOD	425	218	2,500 PSI	5%	NA	GOOD	MODERATE	GOOD	0.98
Hard Rubber	MODERATE	202	94	2,500 PSI	6%	2%	POOR	HEAVY	GOOD	0.67 - 0.7
HSN (HNBR)	VERY GOOD	329	165	2,500 PSI	10%	20%	GOOD	MODERATE	EXCELLENT	0.65 - 0.89
Super Orange	N/A	257	125	5,000 PSI	NO EFFECT	NO EFFECT	GOOD TO EXCELLENT	MODERATE TO HEAVY	EXCELLENT	0.4 - 0.5
Rainbow	POOR	400	204	2,500 PSI	12%	15%	EXCELLENT	MINIMAL	EXCELLENT	0.64 - 0.7
Urethane	N/A	230	110	5,000 PSI	10%	8%	POOR	HEAVY TO EXTREME	POOR	0.59 - 0.68
Special Lube	N/A	302	150	2,500 PSI	5%	10%	POOR	MINIMAL	GOOD	0.3
Creamsicle	N/A	257	125	5,000 PSI	NO EFFECT	NO EFFECT	EXCELLENT	LOW-MODERATE	EXCELLENT	0.4 - 0.5
Teflon	N/A	202	94	2,500 PSI	5%	5%	GOOD	MINIMAL	GOOD	0.4 - 0.6
Teflon 85	N/A	302	150	2,500 PSI	5%	10%	POOR	MODERATE	GOOD	0.4 - 0.6
Cube	N/A	302	150	2,500 PSI	10%	15%	GOOD	HEAVY-EXTREME	MODERATE	0.8
Lappin Tech	MODERATE	482	250	2,500 PSI	7%	11%	EXCELLENT	LOW TO MODERATE	MODERATE	0.9
Steam Seal	EXCELLENT	572	300	5,000 PSI	15%	20%	MODERATE	HIGH TO EXTREME	EXCELLENT	0.51 - 0.65
Completion King	N/A	302	150	2,500 PSI	10%	15%	EXCELLENT	EXTREME	GOOD	0.6
Donut Cone	N/A	202	94	2,500 PSI	5%	2%	GOOD	MODERATE	EXCELLENT	0.89
Donut Cone - Sour Service	VERY GOOD	329	165	2,500 PSI	10%	20%	GOOD	MODERATE	EXCELLENT	0.65 - 0.68

Ratigan Stuffing Box Rubber Material Data

PACKING MATERIAL	PERFORMANCE IN STREAM	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	WATER CUT SEALABILITY	ABRASION RESISTANCE	SEALABILITY	COEFFICIENT OF FRICTION
Gold Flake	GOOD	302	150	2,500 PSI	5%	5%	GOOD	LOW-MODERATE	GOOD	0.14
Graphite	GOOD	302	150	2,500 PSI	5%	5%	GOOD	LOW-MODERATE	MEDIUM	0.55
NBR	MODERATE	302	150	2,500 PSI	2%	5%	GOOD	LOW-MODERATE	EXCELLENT	0.7
Teflon	N/A	176	80	2,500 PSI	2%	5%	GOOD	LOW-MODERATE	GOOD	0.15
HNBR	VERY GOOD	329	165	2,500 PSI	10%	20%	GOOD	LOW-MODERATE	EXCELLENT	0.7

Donut Packing Material Data

PACKING MATERIAL	PERFORMANCE IN STREAM	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	WATER CUT SEALABILITY	ABRASION RESISTANCE	SEALABILITY	COEFFICIENT OF FRICTION
Donut Packing NBR	N/A	230	110	5,000 PSI	2%	5%	GOOD	MODERATE	EXCELLENT	0.64 TO 0.67
Donut Packing HNBR	VERY GOOD	329	165	5,000 PSI	10%	20%	GOOD	MODERATE	EXCELLENT	0.65 TO 0.68
Donut Packing AFLAS	EXCELLENT	450	232	5,000 PSI	35%	15%	EXCELLENT	MODERATE	EXCELLENT	0.7
Donut Packing Super Orange	N/A	257	125	5,000 PSI	NO EFFECT	NO EFFECT	EXCELLENT	HEAVY TO EXTREME	EXCELLENT	0.4 TO 0.5

Slim Hole Packing Material Data

PACKING MATERIAL	PERFORMANCE IN STREAM	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	WATER CUT SEALABILITY	ABRASION RESISTANCE	SEALABILITY	COEFFICIENT OF FRICTION
Fluid Seal - Vee Packing	N/A	250	125	2,000 PSI	4%	8%	LOW	MINIMAL-MODERATE	GOOD	0.7
Super Orange - Vee Packing	N/A	257	125	8,500 PSI	NO EFFECT	NO EFFECT	GOOD TO EXCELLENT	EXTREME	GOOD	0.4-0.5
Sour Seal - Vee Packing	EXCELLENT	325	163	10,000 PSI	25%	10%	EXCELLENT	MINIMAL	EXCELLENT	0.7
Sour Seal FKM - Vee Packing	MODERATE	464	240	10,000 PSI	20%	5%	EXCELLENT	MINIMAL	EXCELLENT	0.62
Rainbow Ring Packing	POOR	400	204	2,500 PSI	12%	15%	EXCELLENT	MINIMAL	EXCELLENT	0.64
Special Vee - Vee Packing	POOR	250	125	10,000 PSI	8%	15%	EXCELLENT	MINIMAL	EXCELLENT	0.8
Steam Seal Ring Packing	EXCELLENT	572	300	5,000 PSI	15%	20%	EXCELLENT	HIGH-EXTREME	EXCELLENT	0.6
Lappin Tech Ring Packing	EXCELLENT	482	250	2500 PSI	8%	12%	EXCELLENT	LOW-MODERATE	EXCELLENT	0.7
Kevlar Brass Ring Packing	EXCELLENT	653	345	2500 PSI	30%	30%	MODERATE	HEAVY	MEDIUM	0.51-0.65
Crown Ring Packing - w/Graphite	N/A	302	150	2500 PSI	15%	20%	GOOD	HIGH	MEDIUM	0.55
Crown Ring Packing - w/soft rubber	N/A	302	150	2500 PSI	2%	5%	EXCELLENT	LOW	EXCELLENT	0.7
Crown Ring Packing - w/tfe filled	N/A	302	150	2500 PSI	2%	2%	GOOD	MEDIUM	GOOD	0.2

Ratigan Ram Rubber Material Data

PACKING MATERIAL	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	ABRASIVE RESISTANCE
NBR	250	125	MODERATE	2%	5%	MODERATE
SILICON	425	218	LOW-MODERATE	NOT TESTED	NOT TESTED	MODERATE-HIGH
HSN	330	165	MODERATE	10%	20%	MODERATE
AFLAS	450	232	MODERATE-HIGH	35%	15%	MODERATE-HIGH

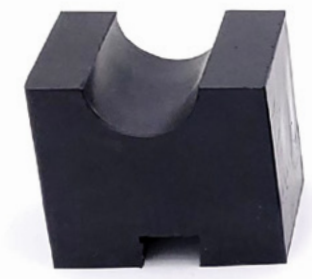
Ram Seal Material Data

PACKING MATERIAL	MAX TEMP (°F/°C)		MAX PRESSURE	MAX H2S	MAX C02	ABRASIVE RESISTANCE
NBR	250	125	MODERATE	2%	5%	MODERATE
SILICON	425	218	LOW-MODERATE	NOT TESTED	NOT TESTED	MODERATE-HIGH
HSN	330	165	MODERATE	10%	20%	MODERATE
AFLAS	450	232	MODERATE-HIGH	35%	15%	MODERATE-HIGH

BOP / **Ram Repair Kits**

Ratigan Ram Rubbers

CPP offers 150 Series Ratigan Style BOP Rams for all polish rod and sucker rod sizes and compounds for both low and high-pressure wells. This includes sour, sweet, and high temp production conditions. All replacement BOP ram rubbers are built to OEM specifications. In addition, CPP takes great care with 100 percent quality control, checking all pressure control consumables one by one.



NBR

TEMPERATURE RATING
250°F (125°C)

MAX PRESSURE
MODERATE

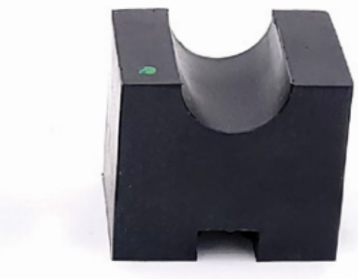
H2S: 2% I **CO2:** 5%

SILICON

TEMPERATURE RATING
-20°F (-29°C) - 425°F (218°C)

MAX PRESSURE
LOW-MODERATE

H2S I CO2: NOT TESTED



HSN

TEMPERATURE RATING
330°F (165°C)

MAX PRESSURE
MODERATE

H2S: 10% I **CO2:** 20%

AFLAS

TEMPERATURE RATING
450°F (232°C)

MAX PRESSURE
MODERATE-HIGH

H2S: 35% I **CO2:** 15%

OUR BRAND PROMISE

COMMUNICATING **WITH VALUE**
DELIVERING **WITH SPEED**
CREATING **TIME FOR YOU**

Ram Seals

At CPP, we pride ourselves on our technical expertise in custom molding technologies. Our artificial lift sealing solutions are designed to bring long-term performance to producers worldwide, with quick turnaround times and field-level solutions for both new designs and existing tolling. Don't let high-pressure or extreme-temperature sealing failure hold you back. Contact CPP today to "seal" the deal on better production!

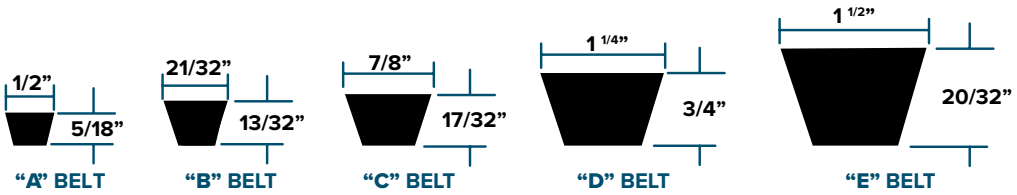
RED SEAL
WHOLESALE SUPERIORITY

Progressing Cavity **Pumping System**

Belts

CPP Distribution is expanding into new product lines to better service our customers. Our goal is to provide strong distribution points for premium brands, all under one roof. The addition of Nirlon® belts will do just that—a trusted brand for all artificial lift needs. Whether it be Classic V belts, Wedge, Hexagonal, FHP/M, Wrapped, Raw Edge, Automotive and or variable speed, CPP Distribution has our customers covered. The Nirlon® belt meets and exceeds all industry standards including ISi and ARPM Engineering Standard. For specific belt information, contact CPP today. Our staff will be more than happy to provide specific information.

Nirlon



CONVERT V-BELT PART NUMBER TO OUTSIDE CIRCUMFERENCE

A Section = Add 2" to belt number
(Example A88 = 90" Outside Circumference)

B Section = Add 3" to belt number; larger than 210 add 1”
(Example B88 = 91" Outside Circumference, B212 = 213” Outside Circumference)

C Section = Add 4" to belt number; larger than 210 add 2”
(Example C88 = 92" Outside Circumference; C212 = 214” Outside Circumference)

D Section = Add 5" to belt number; larger than 210 add 3”
(Example D105=110" Outside Circumference, D212=215” Outside Circumference)

E Section = Add 6" to belt number; larger than 210 add 4”
(Example E144=150" Outside Circumference, E220=224 Outside Circumference)

Rotating Stuffing Box Packing

KEVLAR	GFO	KGF	PE1000	TFE
TEMPERATURE RATING -10°F (-23°C) - 500°F (260°C)	**TEMPERATURE RATING** -400°F (-240°C) - 550°F (288°C)	**TEMPERATURE RATING** -10°F (-23°C) - 500°F (260°C)	**TEMPERATURE RATING** -400°F (-240°C) - 550°F (280°C)	**TEMPERATURE RATING** -400°F (-240°C) - 500°F (260°C)
PRESSURE LIMIT: 500 PSI (3000 PSI in plunger pumps)	**PRESSURE LIMIT:** 300 PSI	**PRESSURE LIMIT:** 700 PSI (2500 PSI in plunger pumps)	**PRESSURE LIMIT:** 800 PSI (5000 PSI in plunger pumps)	**PRESSURE LIMIT:** 250 PSI - 2,00PSI (Dependant on style)
PH: 3-11	**PH:** 0-14	**PH:** 3-11	**PH:** 1-13	**PH:** 0-14

Seals / Repair Kits

Alternative **ALS System**

Plunger Lift

THERMAL HIGH TEMP (THT)	HIGH TEMP COMPOSITE	NYLON	SUPER ORANGE	HIGH TEMP NYLON
	COMPOSITE	PEEK	EXT	

Gas Lift

The importance of design performance has grounded our mandrel packings. CPP offers a wide range of Vee packing profiles made from both generic compounds as well as our Super Orange materials. CPP maintains a focus on tight tolerance precision, providing our gas lift clients excellence both at the OEM and aftermarket levels. Our commitment has been and will always be repeatable tolerances, repeatable profiles, and customer service that sells. Call CPP today for more information on how we can improve your equipment.

Tools

PETOL™

SURGRIP Friction Vise

SURGRIP Friction Tongs

SURGRIP Friction Tongs w/Chains

Pump Support

Tool Stand

SURGRIP Friction Tongs
(for Rod Box/Couplings)

Packing Pullers

Pump Wrap
Bone Wrap

Lubricator Wicks

Notes

Notes

Notes

Connecting People With Product

CPP
DISTRIBUTION

Oil States · Palmetto · PETOL · SEAT-RITE · Lappintech · RED SEAL · Nirlon®

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