

CPP
DISTRIBUTION

SEAT-RITE

PA RINGS



SEAT-RITE
PA RINGS



OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

SEAT-RITE

PA RINGS



SUPER ORANGE Pressure Actuated plunger rings are an excellent option for any application, from high sand thermal, corrosive environments and fast, stroking high volume sour production. This new material will provide producers a product they can rely on in every application.

SPECIFICATIONS

TEMPERATURE RATING

-238°F (-250°C) Cryogenic - +500°F +260°C

ABRASION RESISTANCE

MODERATE - HIGH

ELONGATION (BREAK STRENGTH)

230%

CHEMICAL COMPATIBILITY

INERT



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR ANY APPLICATION IN TODAY'S
DEMANDING PRODUCTION REQUIREMENTS

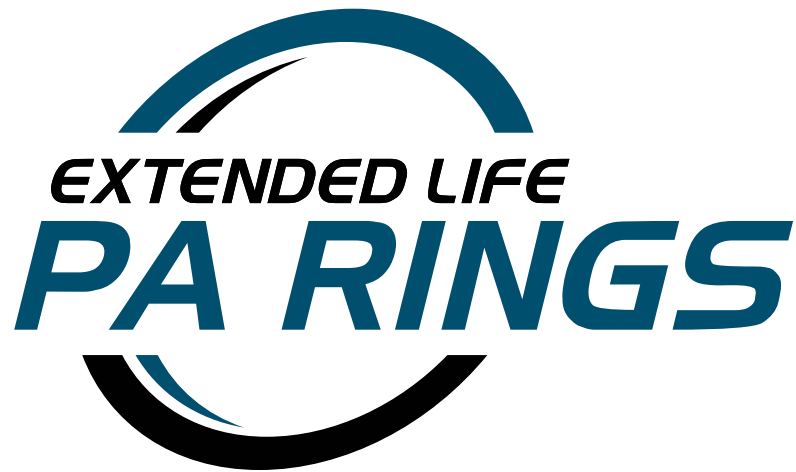
NEXT PAGE
EXT PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 CAN 780-438-0483 USA 832-557-5663

SEAT-RITE

PA RINGS



EXT Pressure Actuated plunger rings are a industry driven improvement from traditional Nylon or fabric alternatives. Constructed from high performance polymers, providing a stronger material over the life span of application exposure. EXT rings are suitable in high water cuts, heavy abrasive or any application where innovation is needed.

SPECIFICATIONS

TEMPERATURE RATING
392° F (200°C)

ABRASION RESISTANCE
HIGH - EXTREME

ELONGATION (BREAK STRENGTH)
250%

CHEMICAL COMPATIBILITY
INERT



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR ANY APPLICATION IN TODAYS
DEMANDING PRODUCTION REQUIREMENTS

NEXT PAGE
THT PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

THERMAL HIGH TEMP

PA RINGS

The High temperature low friction (THT) pressure ring is designed specifically for steam production, CPP's proprietary material is a proven high temperature material well suited for sucker rod pumps pumping fast stroking in SAGD, Cyclic and Thermal Flood operations. The THT material will work well in high concentrations of sand and ultra fines commonly produced in heavy oil production. The self cleaning nature of the PA ring material makes for a long lasting pump with limited to no wear on pump components at all stroke speeds. Thermal – High Temp rings are chemically inert handling all concentration of Hydrocarbons, look towards the THT when chemical batching is potent and causing ring failure. Customers will find it easy to install the THT rings making plunger assemble and disassembly quick and easy.

SPECIFICATIONS

TEMPERATURE RATING

446°F (230°C) - 662°F (350°C)

ABRASION RESISTANCE

MODERATE - HIGH

ELONGATION (BREAK STRENGTH)

230%

CHEMICAL COMPATIBILITY

INERT



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 DESIGNED SPECIFICALLY FOR
STEAM PRODUCTIONS

NEXT PAGE
SUPERMAG PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS



SuperMAG fabric hybrid pressure actuated rings give operators a long lasting extreme service rag style ring. The material design takes into consideration moderate to high down hole temperatures while not sacrificing chemical resistance. The molded construction makes the installation and removal easy, and keeps pump shops efficient and safe. SuperMag PA rings work well in high concentrations of sour gas, ultra fine abrasives in both light and heavy crude applications. The Elongation provides optimal lift and efficiency of all stroke lengths, little to no swelling will take place while pumping with SuperMAG rings.

SPECIFICATIONS

TEMPERATURE RATING
330° F (165°C)

ABRASION RESISTANCE
EXTREME

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY
2-13



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR HIGH SPEED, MODERATE ABRASIVE
APPLICATIONS AND MINIMAL H₂S

NEXT PAGE
PEEK PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS



PEEK materials offer our clients unstoppable performance in any application, including extreme temperatures and all PH's. PEEK is known as the best engineered plastic in today's oil & gas industries, providing a chemically inert alternative to any material offered by CPP.

SPECIFICATIONS

TEMPERATURE RATING
536° F (300°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY
INERT



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR ANY APPLICATION IN TODAY'S
DEMANDING PRODUCTION REQUIREMENTS

NEXT PAGE
HT NYLON PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

HIGH TEMP **NYLON PA RINGS** (PLASTIC)

High Temp Spec of the aforementioned Nylon PA rings, this product provide a self lubricated long lasting product, ideal for slow stroking light crude production. Our Nylon “PA” rings work effectively in sweet environments, with limited abrasive or minimal water cuts.

SPECIFICATIONS

TEMPERATURE RATING
302° F (150°C)

ABRASION RESISTANCE
HIGH

ELONGATION (BREAK STRENGTH)
50% (LOW)

CHEMICAL COMPATIBILITY
INERT



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR SWEET LIGHT CRUDE PRODUCTION

NEXT PAGE
POLYKETONE PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

PolyKetone

RINGS

PolyKetone provides a long lasting product, ideal for slow stroking light crude production. Our Ketone “PA” rings work effectively in sweet and moderate sour environments, with limited abrasion or minimal water cuts.

PolyKetone is a great substitute when temperature ratings of traditional Nylons are insufficient. If the application is not highly abrasive try Poly-Ketone or look to the improved EXT material.

SPECIFICATIONS

TEMPERATURE RATING
320° F (160°C)

ABRASION RESISTANCE
MODERATE

ELONGATION (BREAK STRENGTH)
100% (LOW)

CHEMICAL COMPATIBILITY
MODERATE - HIGH



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR SWEET AND
MODERATE SOUR ENVIRONMENTS

NEXT PAGE
NYLON PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

NYLON PA RINGS (PLASTIC)

Plastic or otherwise known as Nylon PA rings provide a self lubricated long lasting product, ideal for slow stroking light crude production. Our Nylon “PA” rings work effectively in sweet environments, with limited abrasive or minimal water cuts.

SPECIFICATIONS

TEMPERATURE RATING
250° F (120°C)

ABRASION RESISTANCE
MODERATE - HIGH

ELONGATION (BREAK STRENGTH)
315%

PH RANGE
2 - 13 PH



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR SWEET LIGHT CRUDE PRODUCTION

NEXT PAGE
COMPOSITE PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

COMPOSITE

PA RINGS

Fabric pressure actuated rings will provide a significant different performance than polymer materials. Our fabric and rubber combination will provide minimal swelling while creating a stronger plunger seal.

SPECIFICATIONS

TEMPERATURE RATING
220° F (105°C)

ABRASION RESISTANCE
MEDIUM

ELONGATION (BREAK STRENGTH)
400% (GREAT)

CHEMICAL COMPATIBILITY
MODERATE



 OFFERED IN ALL STANDARD SIZE
CUSTOM SIZES AVAILABLE UPON REQUEST

 IDEAL FOR HIGH SPEED, MODERATE ABRASIVE
APPLICATIONS AND MINIMAL H2S

NEXT PAGE
DIMENSIONS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

PA RING DIMENSIONS

PA RINGS	O.D.	I.D.	HEIGHT
DESCRIPTION	CPP	CPP	CPP
SIZE	+/.005"	+ .005/- .000	+/.005"
FABRIC, NYLON, EXT, POLYKETONE, PEEK			
1-1/4"	1.215"	0.850"	0.230"
1-1/2"	1.500"	1.14"	0.230"
1-3/4"	1.710"	1.240"	0.230"
2.00"	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"	3.20"	2.550"	0.230"

NEXT PAGE
CHEMICAL COMPATIBILITY

SEAT-RITE

PA RINGS

CHEMICAL COMPATIBILITY

RATINGS — CHEMICAL EFFECT

A — No effect—Excellent
 B — Minor effect—Good
 C — Moderate effect—Fair
 D — Severe effect—Not recommended

	Peek	THT	Composite	EXT	Nylon®	SuperMAG	Viton®	Nylon HT	PolyKetone	Super Orange
Acetaldehyde ⁵	A	A	D	A	C	C	D	B	B	A
Acetic Acid 20%	A	A	D	A	D	D	C	A	B	A
Acetone ⁶	A	A	D	A	D	D	D	A	B	A
Benzyl	A	A	C	A	A	C	B	A	A	A
Ethyl	A	A	C	A	A	C	D	A	A	A
Isopropyl	A	A	D	A	C	D	D	A	C	A
Amines	A	A	D	A	A	D	A	A	A	A
Ammonia, Anhydrous	A	A	D	A	A	C	D	A	B	A
Ammonium Bifluoride	A	A	D	A	A	D	B	A	B	A
Amyl Alcohol	A	A	B	A	A	B	B	A	A	A
Asphalt	A	A	D	A	A	C	A	A	A	A
Barium Chloride	A	A	A	A	A	A	A	A	A	A
Benzene ²	A	A	D	A	A	A	A	A	B	A
Boric Acid	A	A	A	A	A	A	A	A	A	A
Butadiene	A	A	D	A	D	D	A	A	A	A
Calcium Bisulfate	A	A	A	A	A	A	A	A	A	A
Calcium Chloride	A	A	C	A	D	B	A	A	A	A
Carbon Disulfide ²	A	A	D	A	A	D	A	A	A	A
Diesel Fuel	A	A	A	A	A	A	A	A	A	A
Ethane	A	A	C	A	A	D	D	B	B	A
Ethyl Acetate ²	A	A	D	A	A	D	D	B	B	A
Ethylene Chloride ²	B	B	D	A	A	A	A	A	A	A
Fluorine	A	A	D	A	D	D	C	A	A	A
Hydraulic Oils (Petroleum) ¹	A	A	A	A	A	A	A	A	A	A
Hydraulic Oils (Synthetic) ¹	A	A	A	A	A	C	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.

NEXT PAGE
CHEMICAL COMPATIBILITY

CONTINUED

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

CHEMICAL COMPATIBILITY (cont.)

RATINGS — CHEMICAL EFFECT

A — No effect—Excellent
 B — Minor effect—Good
 C — Moderate effect—Fair
 D — Severe effect—Not recommended

	Peek	THT	Composite	EXT	Nylon®	SuperMAG	Viton®	Nylon HT	PolyKetone	Super Orange
Hydrobromic Acid 20%	A	A	D	A	D	D	A	B	B	A
Hydrofluosilicic Acid	A	A	B	A	D	B	A	A	B	A
Hydrogen Peroxide	A	A	D	A	D	C	C	A	B	A
Ketones	A	A	D	A	B	D	C	A	B	A
Lubricants	A	A	A	A	A	A	A	A	A	A
Methanol	A	A	D	A	A	A	D	A	A	A
Methyl Alcohol 10%	A	A	B	A	B	A	D	A	A	A
Methyl Chloride	B	B	D	A	C	D	C	B	B	A
Methylene Chloride	A	A	D	A	A	D	A	A	A	A
Nitric Acid (10% Solution)	A	A	D	A	B	D	A	A	B	B
Paraffin	A	A	A	A	A	A	A	A	A	A
Phosphoric Acid (Crude)	A	A	C	A	A	B	A	A	A	A
Potash	A	A	A	A	A	B	A	A	A	A
Potassium Carbonate	A	A	C	A	A	C	B	A	A	A
Potassium Hydroxide (50%)	A	A	C	A	B	C	D	A	A	A
Propylene Glycol	A	A	C	A	B	D	C	A	A	A
Sodium Acetate	A	A	B	A	A	B	D	A	A	A
Sodium Carbonate	A	A	C	A	A	C	C	A	A	A
Sodium Hydroxide/Caustic Soda (20%)	A	A	C	A	C	C	A	A	A	B
Sodium Nitrate	A	A	C	A	A	D	A	A	A	A
Sodium Peroxide	A	A	C	A	A	C	A	A	A	A
Sodium Thiosulphate ("Hypo")	A	A	D	A	A	D	D	A	A	A
Sulfuric Acid (to 10%)	A	A	B	A	D	D	A	B	A	A
Sulfurous Acid	A	A	B	A	C	C	D	B	B	A
Toluene	A	A	C	A	C	C	C	B	B	A
Xylene ₂	A	A	C	A	C	C	C	B	B	A
Zinc Chloride	A	A	D	A	C	C	C	B	B	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.

NEXT PAGE
 IMMERSION TEST RESULTS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 CAN 780-438-0483 USA 832-557-5663

SEAT-RITE

PA RINGS

IMMERSION TEST IN SIMULATED SOUR GAS ENVIRONMENT

API 6A ANNEX F IMMERSION TEST

	80% CO ₂	10% H ₂ S	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

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663

SEAT-RITE

PA RINGS

sales@cppdist.com • cppdist.com

TF 1-800-871-4160 **CAN** 780-438-0483 **USA** 832-557-5663