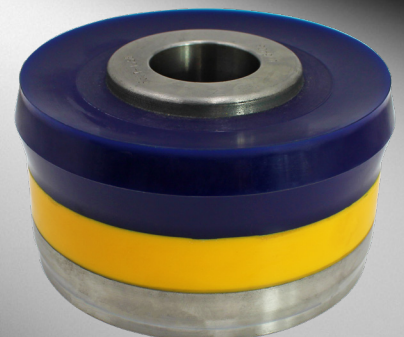
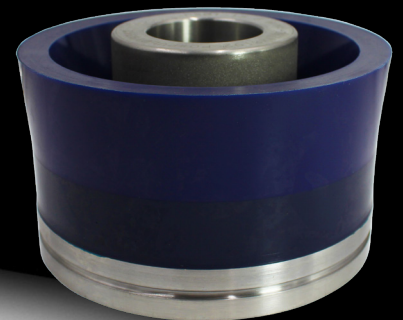
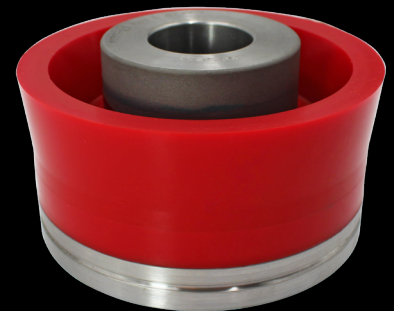
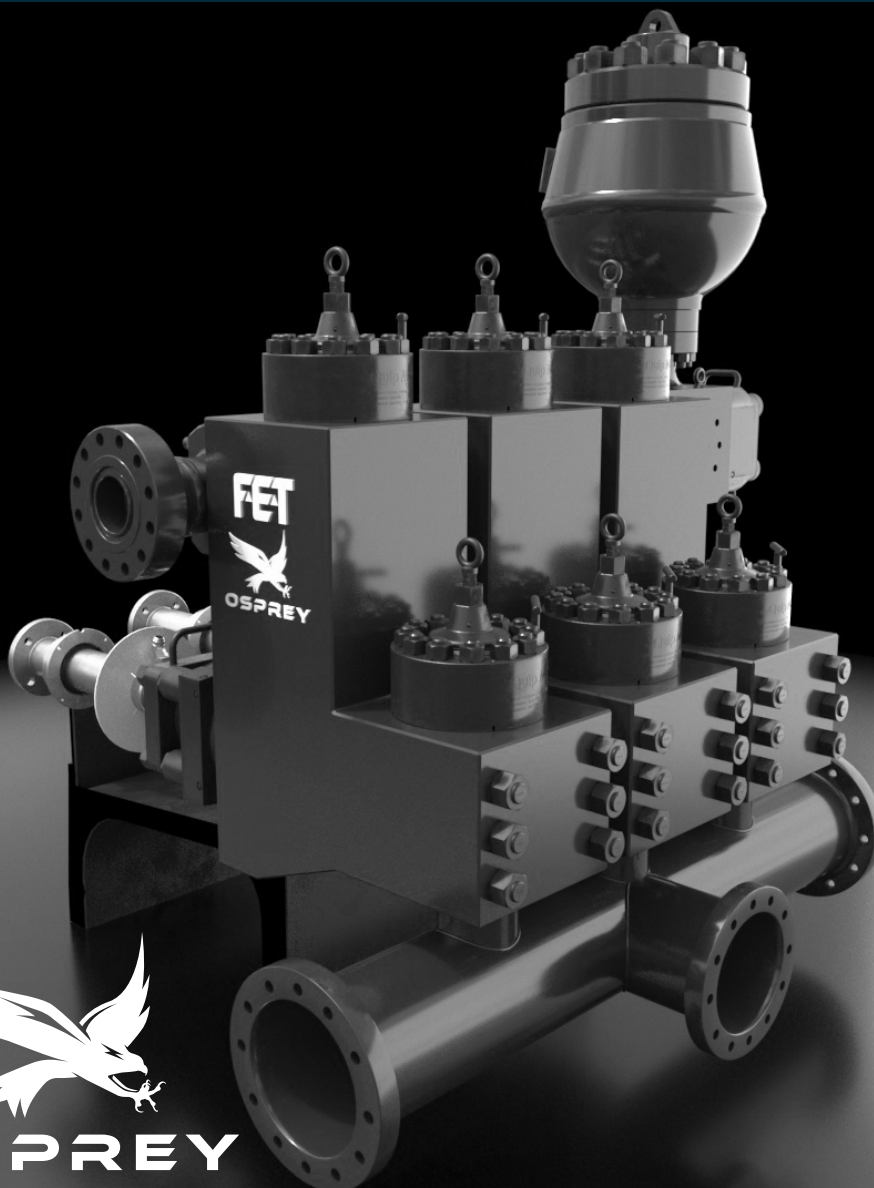


PISTONS

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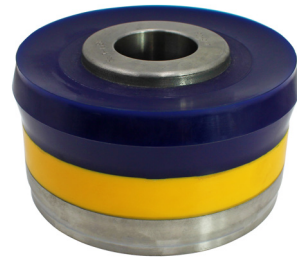


PISTONS

FET manufactures high-quality pistons for regular and high-temperature applications as part of our full line of Osprey® mud pump system solutions. We offer a full range of pistons from standard rubber to specially engineered urethane that can be used in various drilling fluid to meet your specific drilling requirements. FET offers additional fluid end pump parts not listed in this catalog, including drilling valves, seats, liners and gaskets. Contact your FET representative to learn more.

Endurohead

- High pressure 7500psi application, Rated Temp: 240° F [115° C]
- Dual durometer solid body construction with flex lip feature
- Improved bullet nose design
- Resistant to most drilling fluids including Brine
- Suitable for Ceramic and Zirconia liners
- Flex lip provides piston with continuous sealing capability



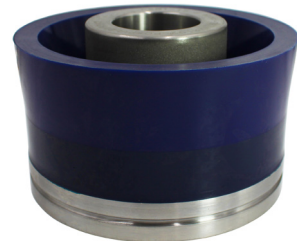
Red Head

- High pressure 7500psi application, Temp resistance: 180° F [82° C]
- Dual durometer lip seal construction
- Accommodates small misalignments of the rod systems
- Resistant to most drilling fluids
- Suitable for Ceramic and Zirconia liners



Blue Devil

- High pressure 7500psi application, and Rated Temp 240° F [115° C]
- Dual durometer lip seal construction
- Accommodates small misalignments of the rod systems
- Resistant to most drilling fluids including Brine
- Suitable for Ceramic and Zirconia liners



Shorty

- High pressure 7500psi application, and Rated Temp 240° F [115° C]
- Dual durometer lip seal construction
- High wear and long life lip seal in with well aligned rods
- Resistant to most drilling fluids including Brine
- Suitable for Ceramic and Zirconia liners



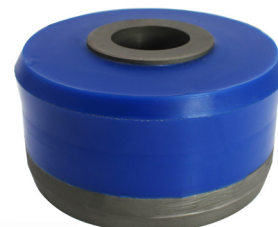
Highlander

- High pressure 7500psi application, Rated Temp: 220° F [104° C]
- Dual durometer bonded solid body construction
- Resistant to most drilling fluids including Brine
- Suitable for Ceramic and Zirconia liners



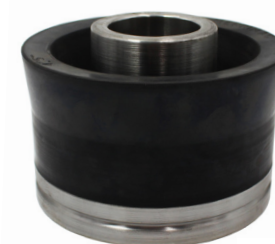
Highlander HT

- High pressure 7500psi application, Temp resistance: 300° F [148° C]
- Dual durometer bonded solid body construction
- Resistant to most drilling fluids including Brine
- Suitable for Ceramic and Zirconia liners



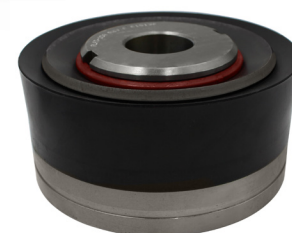
Black Max

- High pressure 7500psi application, and Rated Temp 240° F [115° C]
- Single durometer rubber lip seal construction
- Accommodates small misalignments of the rod systems
- Highly resistant to water and brine drilling fluids



General Service Rubber Flex. Lip

- 5000psi application, and Rated Temp 200° F [93° C]
- Single durometer rubber piston
- Highly resistant to water and brine drilling fluids



Replaceable Rubber Fabric Backing Solid Body

- High pressure 7500psi application, and Rated Temp 200° F [93° C]
- Replaceable rubber element
- Single durometer rubber solid body construction
- Highly resistant to water and brine drilling fluids



Part Numbers

Piston	4"	4 ½"	4 ¾"	5"	5 ¼"	5 ½"	5 ¾"
Red Head	40T-15U-2	45T-15U-2	48T-15U-2	50T-15U-2	53T-15U-2	55T-15U-2	58T-15U-2
Blue Devil	Request	45T-15HT	48T-15HT	50T-15HT	Request	55T-15HT	Request
Shorty	Request	Request	48T-15SR	50T-15SR	Request	55T-15SR	Request
Endurohead	Request	Request	48T-15STSB	50T-15STSB	53T-15STSB	55T-15STSB	Request
Highlander	P0001013	P0001010	P0001005	P0001006	P0001007	P0001001	P0001008
Highlander HT	P0001013HT	P0001010HT	P0001005HT	P0001006HT	P0001007HT	P0001001HT	P0001008HT
Black Max	Request	45T-15BM	Request	50T-15BM	Request	55T-15BM	58T-15BM
GS Rubber	Request	Request	Request	Request	Request	Request	Request
Replaceable Rbr	-	45B-15G	-	50B-15G	-	55B-15G	-

Piston	6"	6 ¼"	6 ½"	6 ¾"	7"	7 ½"	8"
Red Head	60T-15U-2	63T-15U-2	65T-15U-2	68-15U-2	70T-15U-2	75T-15U-2	80T-15U-2
Blue Devil	60T-15HT	63T-15HT	65T-15HT	Request	70T-15HT	Request	80T-15HT
Shorty	60T-15SR	Request	Request	Request	Request	Request	Request
Endurohead	60T-15STSB	Request	65T-15STSB	Request	Request	Request	Request
Highlander	P0001002	P0001009	P0001003	P0001014	P0001004	P0001012	P0001017
Highlander HT	P0001002HT	P0001009HT	P0001003HT	P0001014HT	P0001004HT	P0001012HT	P0001017HT
Black Max	60T-15BM	63T-15BM	65T-15BM	Request	70T-15BM	Request	Request
GS Rubber	60L-15G	63L-15G	65L-15G	68L-15G	70L-15G	75L-15G	80L-15G
Replaceable Rbr	65B-15G	-	65B-15G	-	-	-	-

Features and Descriptions

Primary Feature Description	Blue Devil	Red Head	Shorty	Endurohead	Highlander
Abrasion Resistance	Very Good	Excellent	Very Good	Excellent	Excellent
Continuous Sealing Capability	Excellent	Excellent	Very Good	Very Good	Good
Tear Resistance	Very Good	Very Good	Excellent	Excellent	Very Good
Resistance To Oil	Excellent	Excellent	Excellent	Excellent	Excellent
Chemical Resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Resistance To Synthetic Oil	Excellent	Excellent	Excellent	Excellent	Excellent
Extrusion Resistance	Excellent	Excellent	Excellent	Very Good	Very Good
Use In Oil Based Muds	Excellent	Excellent	Excellent	Excellent	Excellent
Use In Synthetic Base Muds	Excellent	Excellent	Excellent	Excellent	Excellent
Use In Water Based Mud > #10	Very Good	Good	Very Good	Good	Good
Use In Water Based Muds < #10	Fair	Poor	Good	Good	Fair
Use In Water Based Mud > #11	Very Good	Good	Very Good	Good	Good
Use In Water Based Mud < #11	Fair	Poor	Fair	Fair	Fair
Use In Clear Water	Fair	Poor	Fair	Fair	Fair
Use In Salt Water	Fair	Poor	Fair	Fair	Fair
Use In Low Solids	Excellent	Excellent	Excellent	Excellent	Excellent
Use In Moderate Solids	Excellent	Very Good	Very Good	Excellent	Very Good
Use In High Solids	Excellent	Good	Very Good	Excellent	Very Good
Use With Chrome Liners	Excellent	Excellent	Excellent	Good	Good
Use With Ceramic Liners	Excellent	Excellent	Excellent	Excellent	Excellent
Maximum Temperature (Flow Line, °F)	240	180	240	240	220
7500 Pressure Application	Excellent	Excellent	Excellent	Excellent	Excellent
Pressure Rating	7500psi	7500psi	7500psi	7500psi	7500psi

Features and Descriptions

Primary Feature Description	Highlander High Temp	Black Max	General Service Rubber Flex Lip	Replaceable Rubber Fabric Backing Solid Body
Abrasion Resistance	Excellent	Excellent	Excellent	Very Good
Continuous Sealing Capability	Good	Excellent	Very Good	Very Good
Tear Resistance	Very Good	Excellent	Very Good	Very Good
Resistance To Oil	Excellent	Excellent	Good	Good
Chemical Resistance	Excellent	Excellent	Good	Good
Resistance To Synthetic Oil	Excellent	Excellent	Good	Good
Extrusion Resistance	Very Good	Good	Good	Good
Use In Oil Based Muds	Excellent	Very Good	Poor	Good
Use In Synthetic Base Muds	Excellent	Very Good	Poor	Good
Use In Water Based Mud > #10	Good	Excellent	Excellent	Excellent
Use In Water Based Muds < #10	Fair	Excellent	Excellent	Excellent
Use In Water Based Mud > #11	Good	Excellent	Excellent	Excellent
Use In Water Based Mud < #11	Fair	Excellent	Excellent	Excellent
Use In Clear Water	Fair	Very Good	Very Good	Very Good
Use In Salt Water	Fair	Excellent	Very Good	Very Good
Use In Low Solids	Excellent	Excellent	Very Good	Good
Use In Moderate Solids	Very Good	Very Good	Good	Poor
Use In High Solids	Very Good	Good	Poor	Poor
Use With Chrome Liners	Good	Excellent	Good	Good
Use With Ceramic Liners	Excellent	Excellent	Good	Good
Maximum Temperature (Flow Line, °F)	300	220	165	200
7500 Pressure Application	Excellent	Good	Poor	Excellent
Pressure Rating	7500psi	7500psi	5000psi	7500psi

OUR CORE VALUES

No One Gets Hurt

The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

Integrity

In everything we do, in every interaction, both internally and externally, we strive to operate with the utmost integrity and mutual respect.

Customer Focused

Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good Place To Work

We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

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