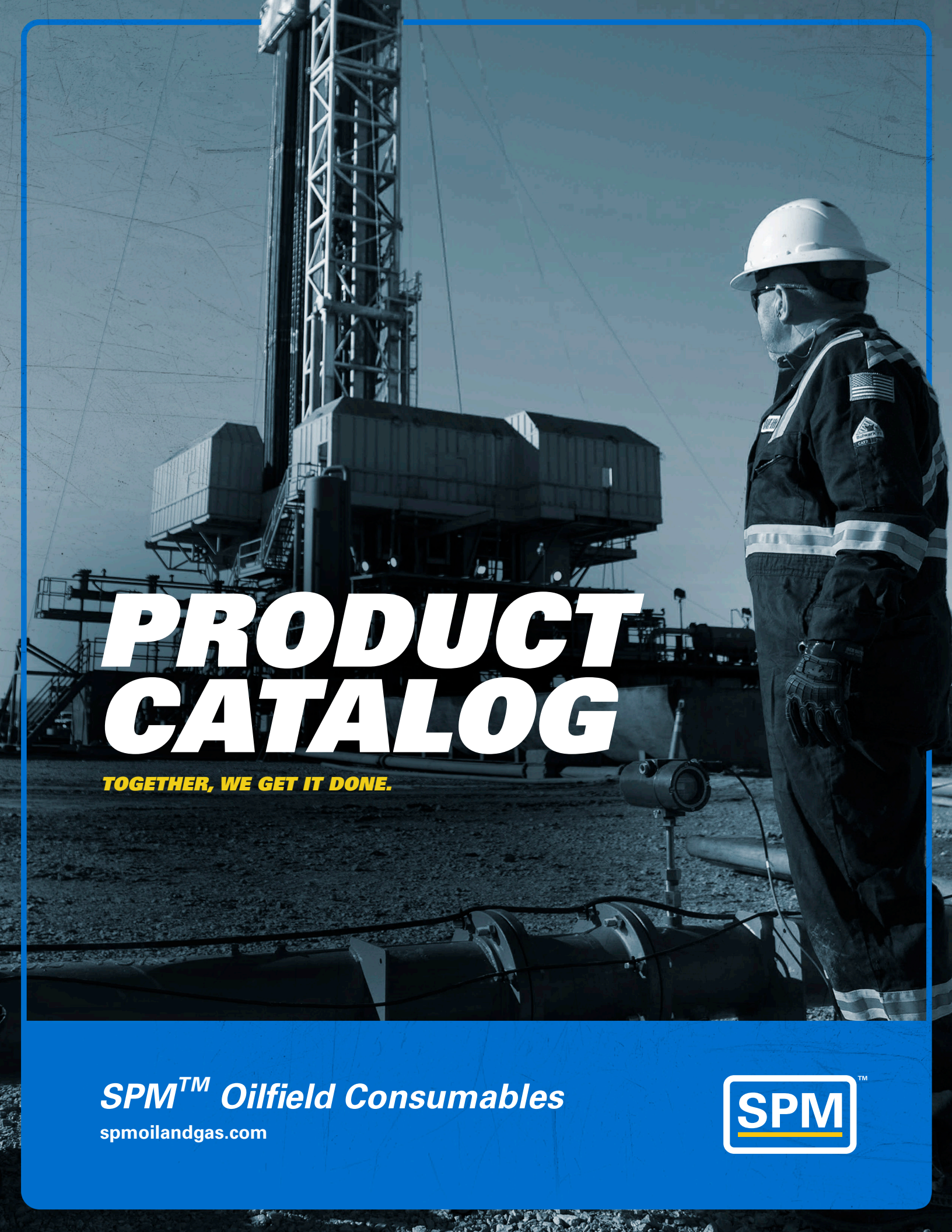

PRODUCT CATALOG

TOGETHER, WE GET IT DONE.

SPM™ Oilfield Consumables

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CONSISTENT. RELIABLE. ALWAYS AROUND.

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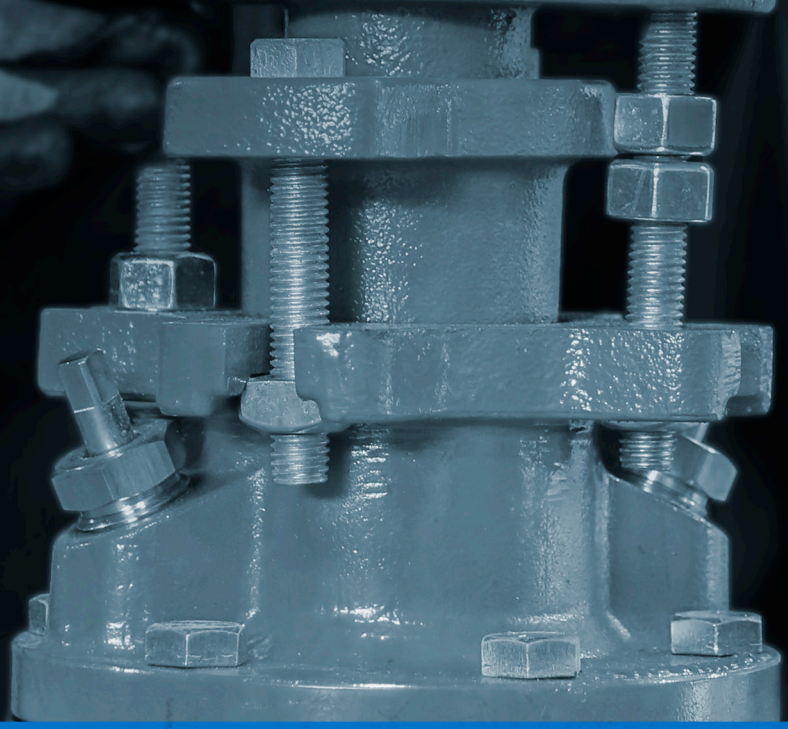
To stock up on SPM premium inventory, talk to our regional sales managers today.

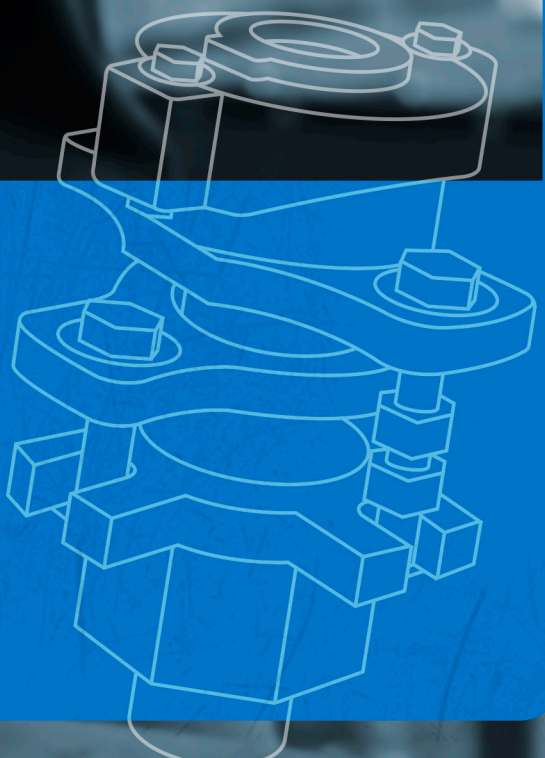
Contents

SPM | SEABOARD

SPM | KEMPER

PRODUCTS BUILT TO LIFT THE OILFIELD.

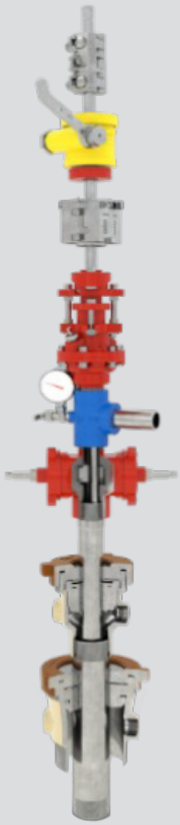




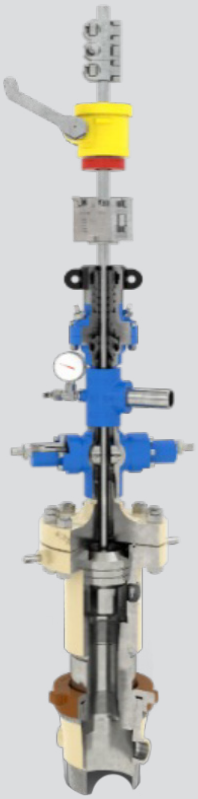
We offer the products you need for your Rod Lift system, including the polished rod clamp, rod rotator, stuffing box, flow tee and blowout preventer. Build your entire system with SPM Seaboard, or pair our products seamlessly with any existing production equipment.

SPM™

Equipment Solutions



1,500 PSI STACKUP



3,000 PSI STACKUP

5,000 PSI STACKUP

Indentation-type Clamp

W-10S 1 BOLT

W-10D 2 BOLT

W-10T 3 BOLT

DESIGN FEATURES

- Individually hinged
- Available in standard rod sizes
- Forged steel body
- Rotating diameter 5 3/4 in
- Phosphate coated

BENEFIT

- Reduced size with no decrease in weight load capacity

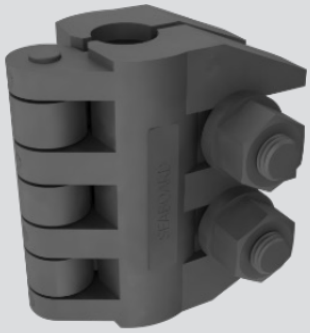
ADVANTAGE

- Can be individually torqued

SPECIFICATIONS	W-10S 1 BOLT	W-10D 2 BOLT	W-10T 3 BOLT
Rated Load	13,000 lbs	26,000 lbs	40,000 lbs
Polished Rod Size	1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in	1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in	1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in
Min/Max Bolt Torque	225/250 ft-lb	225/250 ft-lb	225/250 ft-lb
Weight	3.75 lbs	7.5 lbs	11.25 lbs
Height	2 1/2 in	5 in	7 1/2 in

Friction-type Clamp

W-25



W-40

DESIGN FEATURES

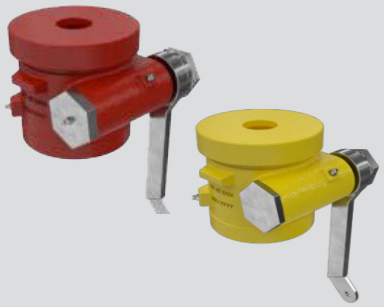
- Available in standard rod sizes
- Phosphate coated
- Forged steel body
- 9 in rotating diameter

SPECIFICATIONS	W-25	W-40
Rated Load	25,000 lbs	40,000 lbs
Polished Rod Size	1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in	1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in
Min/Max Bolt Torque	250/300 ft-lb	500/550 ft-lb
Weight	10.5 lbs	25 lbs
Height	4 1/8 in	6 3/4 in

W-164/164SG, W-252, W-302/302SG W-303/303SG, W-304/304SG

W-164/164SG

W-252



W-302/302SG

W-303/303SG

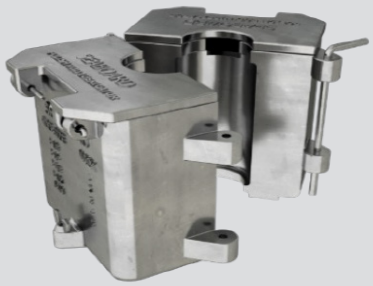
W-304/304SG

DESIGN FEATURES

- Slow gear allows rod gear torque to easily disperse downhole
- Ductile body material
- Helical gear rotation
- Polished rod sizes 1 1/8 to 1 3/4 in

SPECIFICATIONS	W-164/164SG	W-252	W-302/302SG	W-303/303SG	W-304/304SG
Maximum recommended load	13,000 lbs	33,000 lbs	40,000 lbs	40,000 lbs	50,000 lbs
Required bridal clearance width	4 in	6 in	7 in	7 in	7 in
Polished rod sizes	1 1/8 in - 1 1/4 in	1 1/8 in - 1 1/2 in	1 1/8 in - 1 3/4 in	1 1/8 in - 1 3/4 in	1 1/8 in - 1 3/4 in
Height	4 1/2 in	5 1/2 in	6 1/2 in	6 1/2 in	7.29 in
Weight	18 lbs	35 lbs	47 lbs	47 lbs	48 lbs
Standard actuator cable length	16 ft	16 ft	25 ft	25 ft	25 ft
90 Lever pull per revolution	24/3	28	77/154	77/154	77/154

Rod Lubricator with Wicks



SIZES
1 1/8 in
1 1/4 in
1 3/8 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Provides convenient polished rod lubrication
- Easy installation. Use with any style of stuffing box.
- Uses replaceable felt wicks
- Available for all polished rod sizes
- 5 1/2 in height
- Single completion

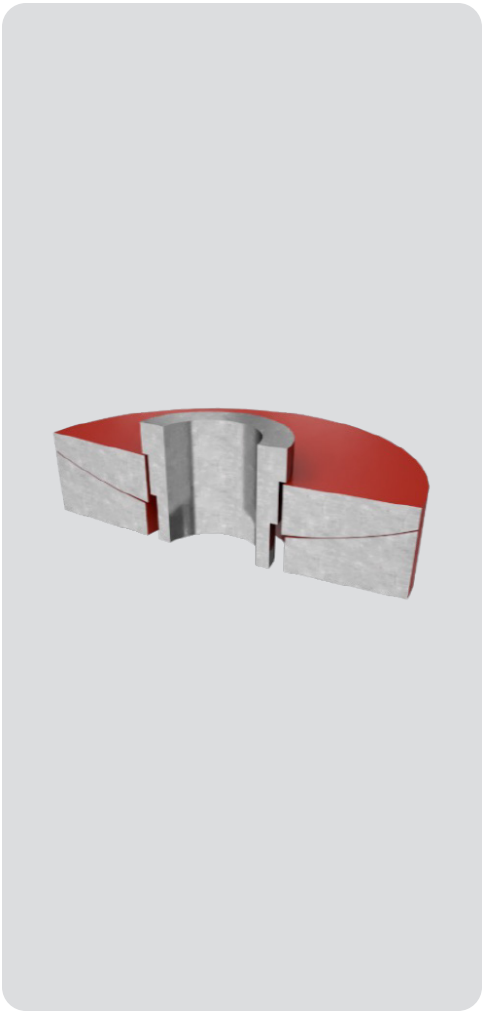
BENEFIT

- Lubrication extends stuffing box packing life

ADVANTAGE

- Designed to prevent premature packing failure due to lack of lubrication on the polished rod

Leveling Plates



SIZES
1 1/8 in
1 1/4 in
1 3/8 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Can be installed under the rod rotator or under the polished rod clamp if rod rotators are not used
- Available in all polished rod sizes

BENEFIT

- Designed to help minimize polished rod breaks

ADVANTAGE

- Designed to ensure uniform engagement between the polished rod clamp and the carrier bar

Stuffing Box (W-SB)

BOTTOM CONNECTIONS
2 in LP 11 1/2 V male
2 3/8 in EUE 8rd male
2 1/2 in LP 11 1/2 V male
2 1/2 in LP 8 V male
2 7/8 in EUE 8rd male
3 1/2 in EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	4
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

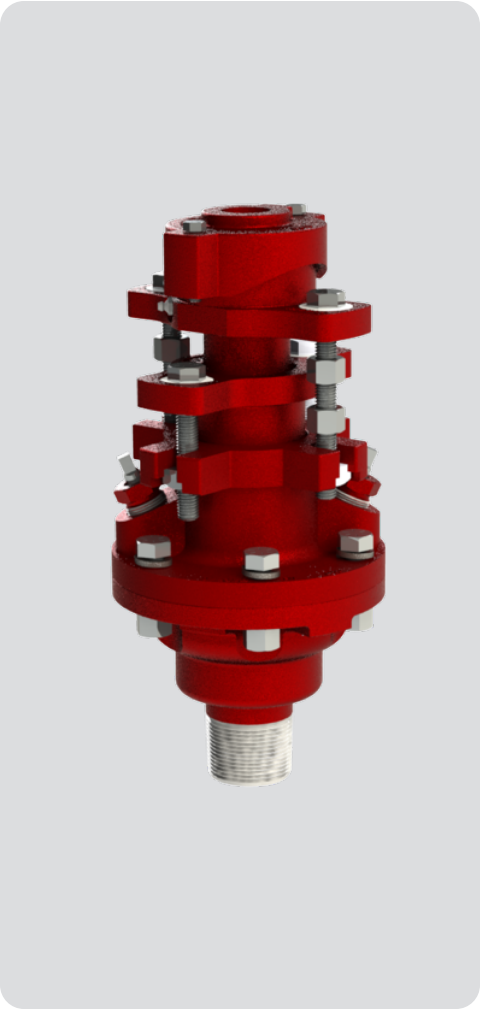
DESIGN FEATURES

- Standard in oil and gas industry; fits most applications
- Low profile
- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- Features up to a 3° flex, reducing the need for exact alignment with pumping unit
- Available in various thread and packing size compound combinations
- Can be used in conjunction with a W-HPLUG for improved performance

Double Pack Stuffing Box (W-DPSB)



BOTTOM CONNECTIONS
2 in LP 11 1/2 V male
2 3/8 in EUE 8rd male
2 1/2 in LP 11 1/2 V male
2 1/2 in LP 8V male
2 7/8 in EUE 8rd male
3 in LP 8V male
3 1/2 in EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	6
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Designed to reduce costly packing maintenance time
- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- Features up to a 3° flex, reducing the need for exact alignment with pumping unit
- Double packing enables primary packing to be changed under pressure
- Available in various thread and packing size compounds combinations
- Can be used in conjunction with a W-HPLUG for improved performance

Tee Based Stuffing Box (W-SBT)

BOTTOM x SIDE CONNECTIONS
2 3/8 in EUE 8rd × 2 in LP
2 7/8 in EUE 8rd × 2 in LP
2 7/8 in EUE 8rd × 3 in LP
3 1/2 in EUE 8rd × 3 in LP

PIECES OF SPLIT CONES REQUIRED	
Top Cones	4
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

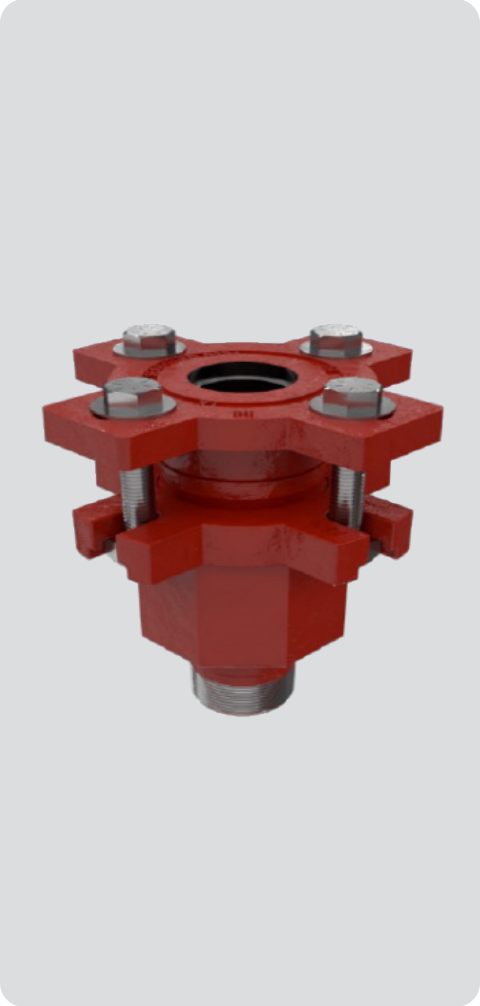
DESIGN FEATURES

- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- T-base eliminates one connection, reducing potential leak point
- Available in various thread and packing size compound combinations
- Can be used in conjunction with a W-HPLUG for improved performance

Inverted Stuffing Box (W-IVSB)



BOTTOM CONNECTIONS
2 in LP 11 1/2 V male
2 3/8 in EUE 8rd male
2 1/2 in LP 11 1/2 V male
2 1/2 in LP 8V male
2 7/8 in EUE 8rd male
3 in LP 8V male
3 1/2 in EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	3
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Superior packing contact with polished rod
- Well bore pressure helps energize inverted packing, protects against pressure spikes
- 1,500 psi working pressure
- Ductile material

ADVANTAGE

- Available in various thread and packing/size compound combinations

Inverted Double Pack Stuffing Box (W-IVDPSB)

BOTTOM CONNECTIONS
2 in LP 11 1/2 V male
2 1/2 in LP 11 1/2 V male
2 1/2 in LP 8V male
2 3/8 in EUE 8rd male
2 7/8 in EUE 8rd male
3 in LP 8V male
3 1/2 in EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	5
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Double packing allows primary packing to be changed under pressure
- Well bore pressure helps energize inverted packing, protects against pressure spikes
- Superior packing contact with polished rod
- 1,500 psi working pressure
- Ductile material

ADVANTAGE

- Available in various thread and packing size compound combinations

Inverted Tee Based Stuffing Box (W-IVSBT)

BOTTOM x SIDE CONNECTIONS
2 3/8 in EUE 8rd × 2 in LP
2 7/8 in EUE 8rd × 2 in LP
2 7/8 in EUE 8rd × 3 in LP
3 1/2 in EUE 8rd × 3 in LP

PIECES OF SPLIT CONES REQUIRED	
Top Cones	3
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Well bore pressure helps energize inverted packing, protects against pressure spikes
- Superior packing contact with the polished rod
- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- Extremely low profile wells
- Available in various thread and packing size compound combinations
- T-base eliminates one connection, reducing potential leak point

1500# Big Shot Stuffing Box (W-BS)

BOTTOM CONNECTIONS
2 3/8 EUE 8rd male
2 7/8 EUE 8rd male
3 in LP 8V male
3 1/2 EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	3
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Available in various thread and packing size compound combinations
- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- Easy to adjust threaded cap – no bolts to tighten
- Standard brass inverter ring designed to reduce polished rod scarring
- Available in various thread and packing size compounds combinations
- Can be used in conjunction with a W-HPLUG for improved performance
- Low profile design for stroke length limitations

1500# Big Shot Double Pack Stuffing Box (W-BSDP)

BOTTOM x SIDE CONNECTIONS
2 3/8 EUE 8rd male
2 7/8 EUE 8rd male
3 in LP 8V male
3 1/2 EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	5
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Available in various thread and packing size compound combinations
- 1,500 psi working pressure
- Ductile material

ADVANTAGES

- Easy to adjust threaded cap – no bolts to tighten
- Standard brass inverter ring designed to reduce polished rod scarring
- Double packing enables primary packing to be changed under pressure
- Available in various thread and packing size compounds combinations
- Can be used in conjunction with a W-HPLUG for improved performance
- Low profile design for stroke length limitations

3K Big Shot Double Pack Stuffing Box (W-BSDP)

BOTTOM CONNECTIONS
2 3/8 EUE 8rd male
2 7/8 EUE 8rd male
3 in LP 8V male
3 1/2 EUE 8rd male
2 9/16 in 5,000 flanged

PIECES OF SPLIT CONES REQUIRED	
Top Cones	5
Bottom Cones	1

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Available in various thread and packing size compound combinations
- 3000 psi working pressure
- Ductile material

ADVANTAGES

- Easy to adjust threaded cap – no bolts to tighten
- Standard brass inverter ring designed to reduce polished rod scarring
- Double packing enables primary packing to be changed under pressure
- Available in various thread and packing size compounds combinations
- Can be used in conjunction with a W-HPLUG for improved performance
- Low profile design for stroke length limitations

Pollution Control Double Pack Stuffing Box (W-PCDP)

BOTTOM CONNECTIONS
2 3/8 in EUE 8rd male
2 9/16 in 5,000 flanged
2 7/8 in EUE 8rd male
3 in LP 8V male
3 1/2 in EUE 8rd male

PIECES OF SPLIT CONES REQUIRED	
Top Cones	5
Bottom Cones	1
V packing	10

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Two independently adjustable packing chambers
- Base and HPLUG have NPT test port
- 1,500 psi working pressure
- Maximum operating temperature: 350°F (176°C)
- Pollution control adapter acceptable to -50°F (-45°C)
- Features up to a 3° flex, reducing the need for exact alignment with pumping unit
- Ductile material

ADVANTAGES

- Flapper closes automatically if polished rod breaks
- Promotes clean and environmentally sound wellsite
- Upper and middle packing can be replaced under pressure
- Suitable for steam applications
- Suitable for sour service — all materials conform to NACE MR-01-75 requirements
- Easily incorporated into any existing wellhead completion
- Adaptable to Environmental Control Adapter (ECA)

Pollution Control Big Shot Double Pack (W-PCBSDP)

BOTTOM CONNECTIONS
2 in LP 11 1/2 V male
2 1/2 in LP 11 1/2 V male
2 1/2 in LP 8V male
2 3/8 in EUE 8rd male
2 7/8 in EUE 8rd male
3 in LP 8V male
3 1/2 in EUE 8rd male
2 9/16 in 5,000 flanged

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Pollution control check valve
- Available with ECA (Environmental Control Adapter)
- Available in flanged or threaded versions
- 3000 psi working pressure
- Ductile material

ADVANTAGES

- Flapper closes automatically if polished rod breaks
- Promotes clean and environmentally sound wellsite
- Upper and middle packing can be replaced under pressure
- Suitable for steam applications
- Suitable for sour service — all materials conform to NACE MR-01-75 requirements
- Easily incorporated into any existing wellhead completion
- Adaptable to Environmental Control Adapter (ECA)

Pollution Control High Pressure Big Shot Stuffing Box (W-PCHPBS)

BOTTOM CONNECTIONS
2 3/8 in EUE 8rd male
2 7/8 in EUE 8rd male
3 1/2 in EUE 8rd male
2 9/16 in 5,000 flanged

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Available with ECA (Environmental Control Adapter)
- Available in flanged
- 5000 psi working pressure

ADVANTAGES

- Flapper closes automatically if polished rod breaks
- Promotes clean and environmentally sound wellsite
- Upper and middle packing can be replaced under pressure
- Suitable for steam applications
- Suitable for sour service — all materials conform to NACE MR-01-75 requirements
- Easily incorporated into any existing wellhead completion
- 2-9/16 (R-27) Flanged bottom connection. One Piece Spool, Not Welded.
- Adaptable to Environmental Control Adapter (ECA)

High Temperature Double Pack Stuffing Box (DPHP)

BOTTOM CONNECTIONS
2 3/8 in EUE 8rd male
2 7/8 in EUE 8rd male
3 1/2 in EUE 8rd male

POLISH ROD SIZE
1 1/8 in
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Upper packing can be replaced under pressure
- Suitable for steam applications
- Suitable for sour service — all materials conform to NACE MR-01-75 requirements
- Easily incorporated into any existing wellhead completion

High Performance Lube Upper Gland (W-HPLUG)

ROD SIZES
1 in
1 1/8 in
1 1/4 in
1 5/16 in
1 3/8 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Provides a secondary seal
- Uses V-style packing
- 3/4 in NPT port for installing ESD

BENEFIT

- Promotes clean and environmentally sound well site hookup

Big Shot BS-HPLUG

ROD SIZES
1 1/4 in
1 1/2 in
1 3/4 in

DESIGN FEATURES

- Provides a secondary seal
- Uses V-style packing
- 3/4 in NPT port for installing ESD

BENEFIT

- Promotes clean and environmentally sound well site hookup

Lube Upper Gland (W-LUG)

ROD SIZES
1 in
1 1/8 in
1 1/4 in
1 5/16 in
1 3/8 in
1 1/2 in
1 3/4 in

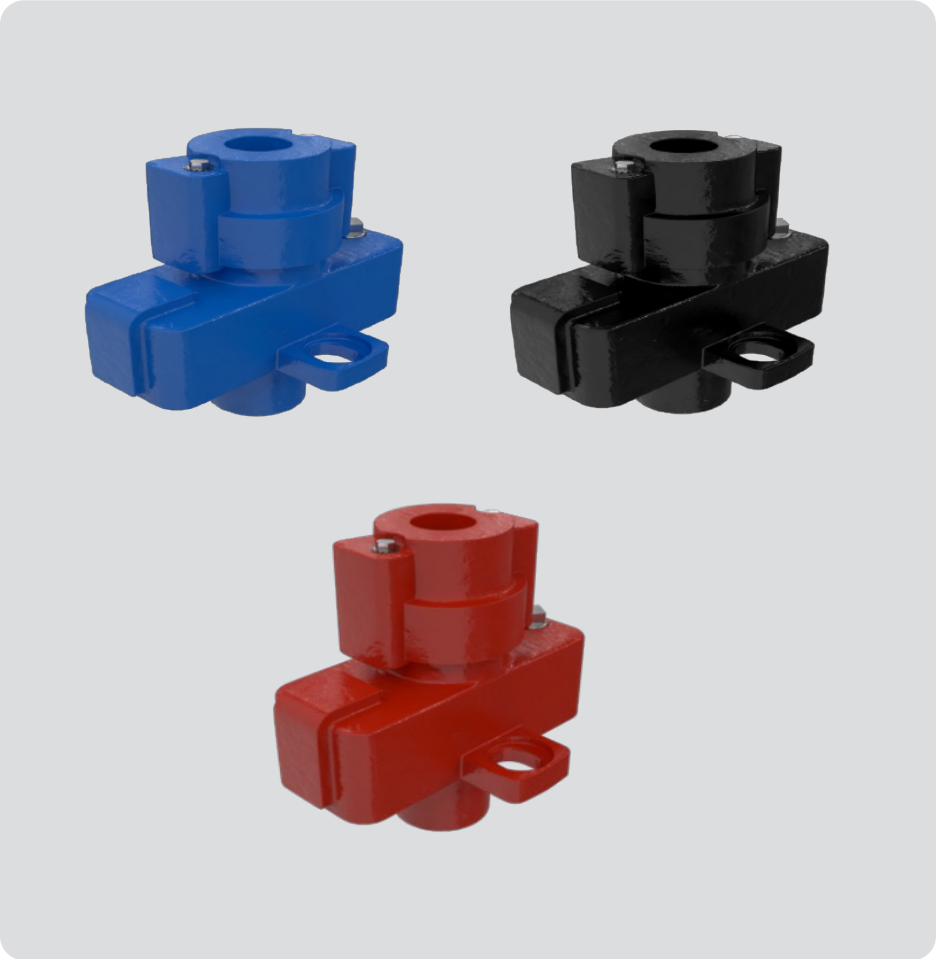
DESIGN FEATURES

- Zerk fitting for maintenance
- Ductile iron material
- Top split cone balances oil film on the polished rod

BENEFIT

- Designed to extend packing life and reduce maintenance costs

Fluid Reservoir Gland (FRG)



DESIGN FEATURES

- For use on "problem" wells that pump or flow off
- Holds one quart of oil
- Complete with ¾ in NPT port for installation of SPM Oil & Gas ECA
- Top split cone balances oil film on the polished rod
- Available for all polished rod sizes:

- Blue FRG is for the 1 in through 1 5/16 in polish rod
- Red FRG is for the 1 3/8 in through 1 1/2 in polish rod
- Black FRG is for the 1 ¾ in polish rod

BENEFIT

- Easily installed and maintained

ADVANTAGES

- Since the cap and reservoir are not connected by a tube, the water or snow accumulating on the top of the FRG will not fill up the reservoir like other FRG's or ORG's on the market. When using the FRG with an ECA, it will keep the ECA from filling up and the well from stopping prematurely.

PRODUCT DESCRIPTION

This piece of equipment takes the place of the LUG (Lube Upper Gland) on a standard stuffing box, double pack stuffing box, stuffing box with T-base or the W-HPLUG (High Pressure Lube Upper Gland) on the Pollution Control Double Pack Stuffing Box.

Environmental Control Adapters (ECA)

DESIGN FEATURES

- Meets NEC Class 1, Division 1 requirements
- Fits all FRG and W-HPLUG models
- 2 connections for assembly
- Long travel flot
- Both "Normally Open" and "Closed" contacts
- Optional Pollution control adapter available
- Maximum 30% H_2S

BENEFIT

- Reduces spills due to leakage

ADVANTAGE

- Corrosion-resistant components

Enviromental Control Adapters (ECA) with Weight Activated Switch

DESIGN FEATURES

- Leak detection system to prevent costly stuffing box spills
- Fits all FRG and W-HPLUG models
- Durable stainless steel container
- Meets NEC Class 1, Div.1 (with explosion proof switch)
- Weight activated switch options:
  - Standard
  - Explosion proof (NEC Class 1, Div. 1)
  - Expanded capacity canister

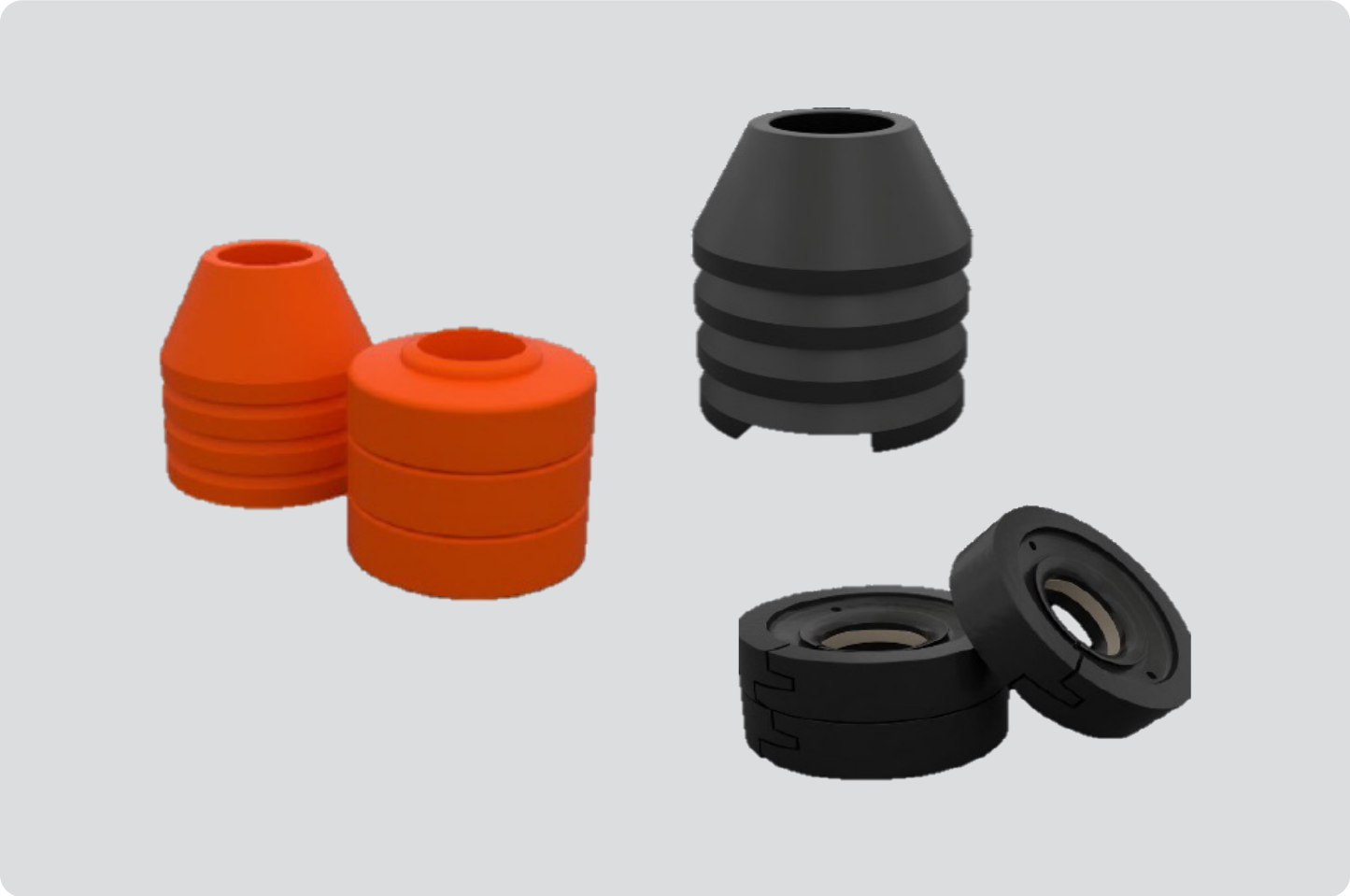
BENEFIT

- Reduces spills due to leakage

ADVANTAGE

- Corrosion resistant components

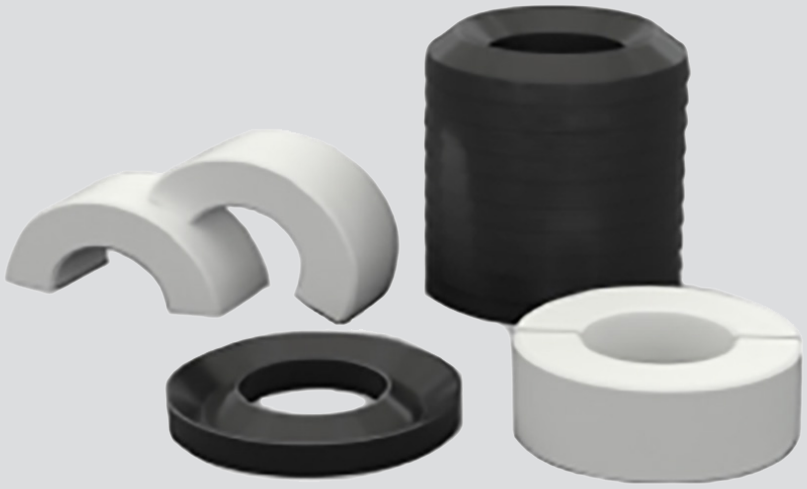
Cone & Dee Packing Products



MATERIAL	MAXIMUM % H_2S	MAXIMUM TEMPERATURE
BUNA SOFT	2%	110°F (43°C)
Soft lubricated	2%	110°F (43°C)
PFTE	5 – 8%	500°F (250°C)
PFTE filled	2%	110°F (43°C)
HSN	8 – 10%	355°F (180°C)
Brass filled	5%	130°F (70°C)
HT Kevlar brass filled	30%	650°F (345°C)
Seal Pack (BUNA)	2%	160°F
Seal Pack (HSN)	20%	325°F
Super Orange	97+%	250°F (125°C)
Dee style (BUNA)	5%	230°F (110°C)
Dee style (HSN)	25%	311°F (155°C)
High tensile	15%	400°F (200°C)

ROD SIZES
1 in
1 1/8 in
1 1/4 in
1 5/16 in
1 3/8 in
1 1/2 in
1 3/4 in

V-Packing Products



Temperature Capability:
-20°F (-29°C) to 250°F (121°C)

DESIGN FEATURES

- Used in the W-HPLUG, are rated to 250°F (121°C) to 350°F (177°C)
- Available in BUNA or HSN material

PRODUCT DESCRIPTION

Fluid seal rod packing incorporates the proven theory of lip-type action (sealing from pressure), with space provided between each ring designed to provide a perfect, nonbinding fluid seal for lubrication of the rod. This packing requires no tightening. It performs best when run loose (finger-tight). Normal operating pressure expands the lip to compensate for wear until the packing is completely worn out.

PACKING SIZES
2 1/2 in OD × 3 1/8 in high

ROD SIZES
1 in
1 1/8 in
1 1/4 in
1 5/16 in
1 3/8 in
1 1/2 in
1 3/4 in

Stuffing Box Packing Options: CP Style, QT Style

CP STYLE

- Maximum temperature: 650°F (345°C)
- Maximum burst temperature: 1,000°F (540°C)
- Maximum 30% H_2S

QT STYLE

- Temperature: 500°F (260°C)
- Reciprocating: 1,500 psi (80 bar)
- Shaft speed: 2,800 fpm (14 m/s)
- V-Packing

CP STYLE

Engineered for high H_2S content wells with long stroke and fast pumping. Specifically designed with a reinforced sealing surface for high abrasives. Considered to be the best extreme service packing in today's market place.

QT STYLE

A blend of high-performance aramid and fiberglass fibers are impregnated with PTFE, increasing chemical resistance. Its excellent properties and density help provide an extrusion resistant barrier designed to extend the life of the packing. The fiberglass conducts heat while the PTFE mitigates shaft wear.

Conversion Kit from Cone Packing to Dee Packing

PRODUCT DESCRIPTION

This set of brass conversion rings are used when converting a stuffing box that uses a W-LUG from Cone Packing to Dee Packing.

W-HPLUG/FRG Adapter with Dee Packing

PRODUCT DESCRIPTION

This set is used when converting a stuffing box that uses a W-HPLUG or FRG from Cone Packing to Dee Packing.

Stuffing Box Clamp

DESIGN FEATURES

- Allows operator to safely change out the primary packing in any double pack
- Holds the cap or top section of the stuffing box on the polish rod to allow access to the primary packing
- Fits all rod sizes from 1 1/4 –1 3/4 in

Polished Rod Bullet

SPECIFICATIONS
1.375-10 UN Box × 1 1/2 OD
1.187-10 UN Box × 1 1/2 OD
1.187-10 UN Box × 1 1/4 OD

DESIGN FEATURES

- Assists in the installation of a polished rod
- Passes easily through the stuffing box
- Greatly reduces risk of damaging polished rod threads, stuffing box packing, and flapper valve on pollution control (PC) stuffing boxes
- Tapered end improves ease of installation
- Cross-hole design for trouble-free installation and removal from polished rod

3K Pumping Tee

DESIGN FEATURES

- Applications up to 3,000 psi working pressure
- Meets NACE requirements
- Both EUE and LP available
- 1 in bleeder standard
- Available with corrosion resistant coatings upon request
- Select sizes available with pin bottom thread

5K Pumping Tee

DESIGN FEATURES

- Applications up to 5,000 working pressure
- Meets NACE requirements
- 1 in bleeder standard
- Available with corrosion resistant coatings upon request

W-212 BOP

DESIGN FEATURES

- Externally threaded end cap
- Blow out proof ram screw
- Full opening
- Steel reinforced elastomer ram block
- Fusion bonded corrosion protection coatings available
- Stainless steel for NACE trim available

SPECIFICATIONS				
Sizes available	2 3/8 in EUE 8rd	2 7/8 in EUE 8rd	3 1/2 in EUE 8rd	3 in LP
Vertical bore	1.995 in	2.441 in	2.992 in	2.900 in
Body and cap material	Ductile			
Ram materials available	Buna, Seagold™ HT, HSN			
Ram screw and packing gland	Carbon steel; stainless steel available upon request			
Ram sizes	Blind, 5/8 –1 in, 1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in			
Connection	Pin × box			
Handles	Optional			
Working pressure	1,500 psi			
Height (in)	9.39 in	9.5 in	9.75 in	8.65 in
Weight (lbs)	43 lbs	45 lbs	47 lbs	42 lbs

W-150 BOP

DESIGN FEATURES

- Hammer lug style end cap
- Blow out proof ram screw
- Steel reinforced elastomer ram block
- O-ring on end caps provide reliable and pressure tight seal

BENEFITS

- ACME thread end-cap
- Eliminates cross threading and provides quick opening

SPECIFICATIONS				
Sizes available	2 3/8 in EUE 8rd	2 7/8 in EUE 8rd	3 1/2 in EUE 8rd	3 in LP
Vertical bore	1.995 in	2.441 in	2.992 in	2.900 in
Body and cap material	Ductile			
Ram materials available	Buna, Seagold™ HT, HSN			
Ram screw and packing gland	Carbon steel; stainless steel available upon request			
Ram sizes	Blind, 5/8 –1 in, 1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in			
Connection	Pin × box			
Handles	Optional			
Working pressure	1,500 psi			
Height (in)	9.39 in	9.5 in	9.75 in	8.65 in
Weight (lbs)	48 lbs	50 lbs	52 lbs	47 lbs

W-150H BOP

SPECIFICATIONS				
Sizes available	2 3/8 in EUE 8rd	2 7/8 in EUE 8rd	3 1/2 in EUE 8rd	3 in LP
Vertical bore	1.995 in	2.441 in	2.992 in	2.900 in
Body and cap material	Ductile			
Ram materials available	Buna, Seagold™ HT, HSN			
Ram screw and packing gland	Carbon steel; stainless steel available upon request			
Ram sizes	Blind, 5/8 –1 in, 1 1/8 in, 1 1/4 in, 1 1/2 in, 1 3/4 in			
Connection	Pin × box			
Handles	Optional			
Working pressure	1,500 psi			
Height (in)	9.39 in	9.5 in	9.75 in	8.65 in
Weight (lbs)	63 lbs	65 lbs	67 lbs	62 lbs

BUILT TO LAST.

For more than 50 years, SPM Kemper has been a trusted name in oilfields across North America. As part of SPM Oilfield Consumables offering, it's now easier than ever for you to access on-demand oilfield parts for your drilling and production needs.

SPM™

Oilfield Hammer Unions – STD

FIGURE	NSCWP	Size
100	1,000 psi/68.9 bar	2 in, 2.5 in, 3 in, 4 in, 5 in, 6 in, 8 in
200	2,000 psi/137.9 bar	1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in, 6 in, 8 in, 10 in
206	2,000 psi/137.9 bar	1 in, 1.25 in, 1.5 in, 2 in, 2.5 in, 3 in, 4 in, 6 in, 8 in
207	2,000 psi/137.9 bar	3 in, 4 in, 6 in
211	2,000 psi/137.9 bar	2 in, 3 in
300	3,000 psi/ 206.8 bar	1 in, 2 in
400	4,000 psi/275.8 bar	2 in, 3 in, 4 in
400	2,500 psi/172.4 bar	12 in
602	6,000 psi/413.7 bar	1 in, 2 in, 3 in, 4 in
1002	10,000 psi/689.5 bar 7,500 psi/517.1 bar	1 in, 2 in, 3 in, 4 in 5 in, 6 in
1003	10,000 psi/689.5 bar 7,500 psi/517.1 bar	3 in 4 in, 5 in
1502	15,000 psi/1034.2 bar	1 in, 2 in, 3 in, 4 in, 5 in

Hammerseal Unions

SIZES
3 in
4 in
6 in
8 in
10 in
12 in
14 in
16 in
18 in
20 in

DESIGN FEATURES

- Allows for mud tank misalignment while still maintaining a seal
- Externally threaded female sub welds to a Sched 80 pipe stub
- Internally threaded hammer nut compresses the o-ring into an oblong cross-section to seal against connecting pipe
- 150 psi max pressure

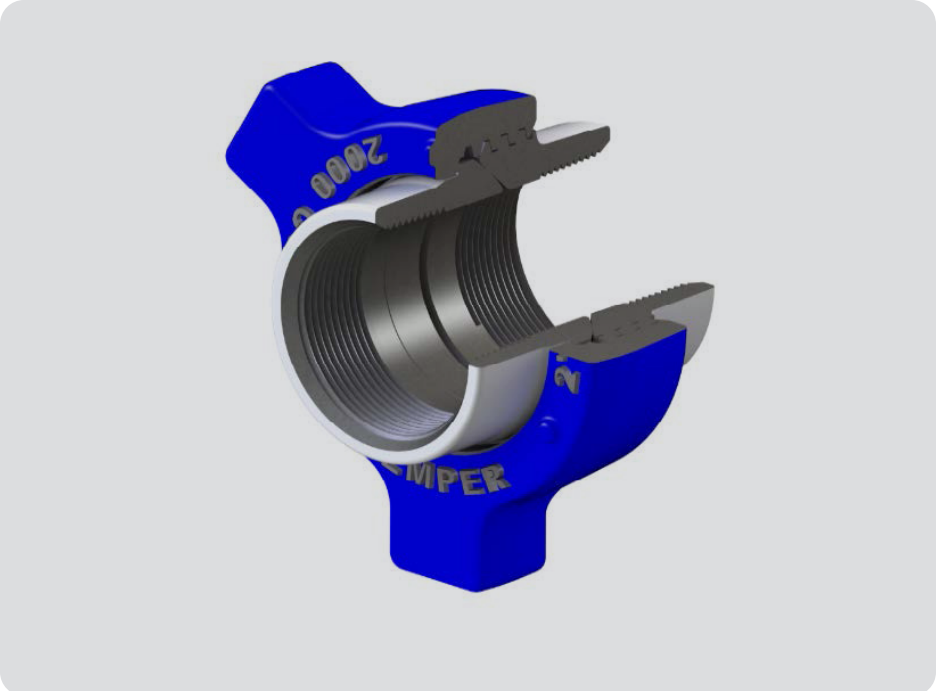
Actual product color may vary depending on pressure rating.

FIGURE 100 - Black Nut, Yellow Subs

DESIGN FEATURES

- 1,000 psi
- Low pressure line connections and manifolds
- Tough, impact resistant ductile iron
- Precision manufacturing of ball-cone seats

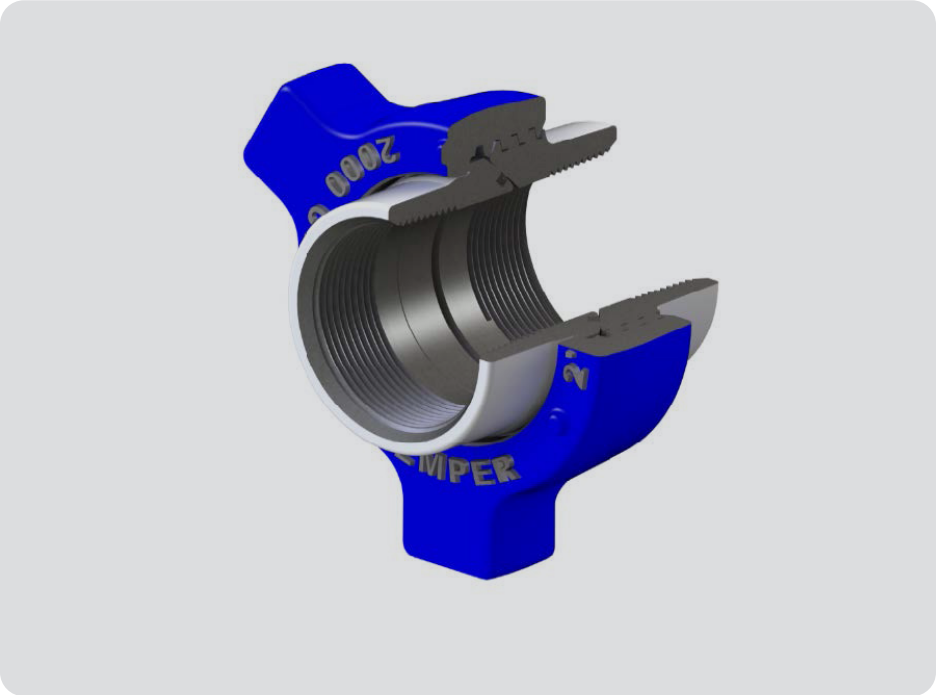
FIGURE 200 - Blue Nut, Gray Subs



DESIGN FEATURES

- 2,000 psi
- Line connections and manifolds
- Medium pressure ranges for air, water, oil, or gas service
- Forged carbon steel construction
- Interchangeable with industry standards

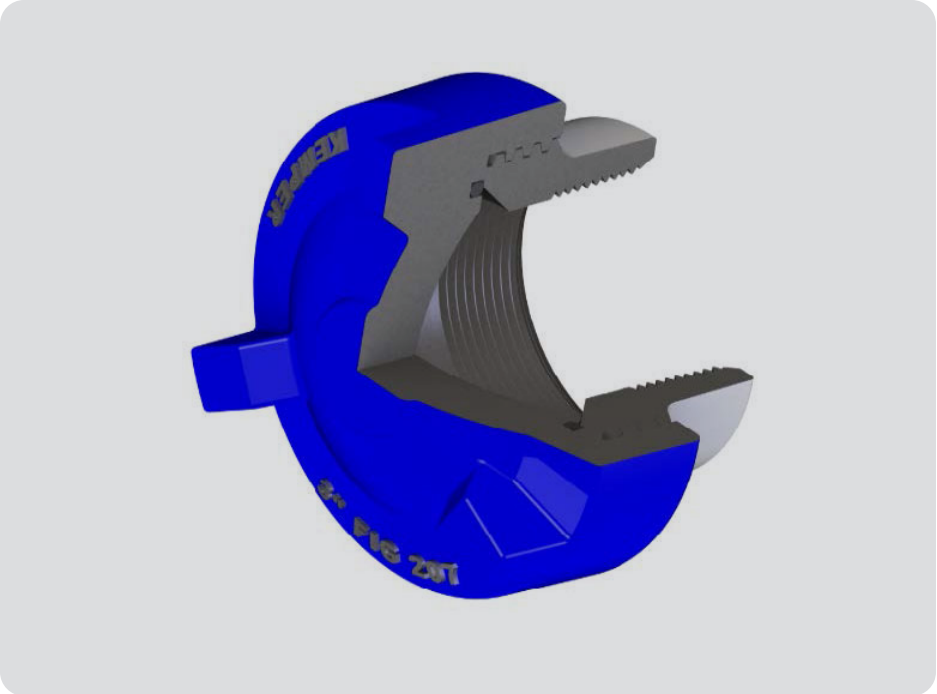
FIGURE 206 - Blue Nut, Gray Subs



DESIGN FEATURES

- 2,000 psi
- Line connections and manifolds
- Fitted o-ring in male sub seating surface resulting in enhanced sealing
- Stainless steel subs available

FIGURE 207 - Blue Cap, Gray Sub



DESIGN FEATURES

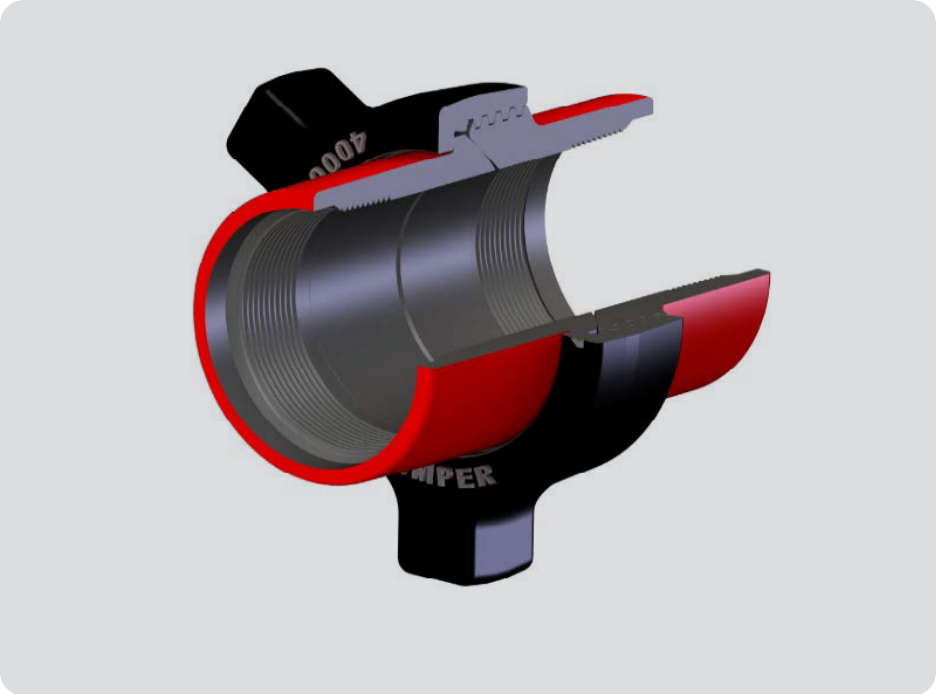
- 2,000 psi
- Cap off of manifold connections
- Contains pressurized fluids
- Can be fitted with pressure gauges
- Nitrile o-ring that provides effective closure

FIGURE 211 - Grey Nut, Blue Subs

DESIGN FEATURES

- 2,000 psi
- For systems where static or electrolytic corrosion is a problem
- Insluated design that eliminates metal to metal contact across the union
- Dual abrasion resistant precision elastomers that provide a positive seal

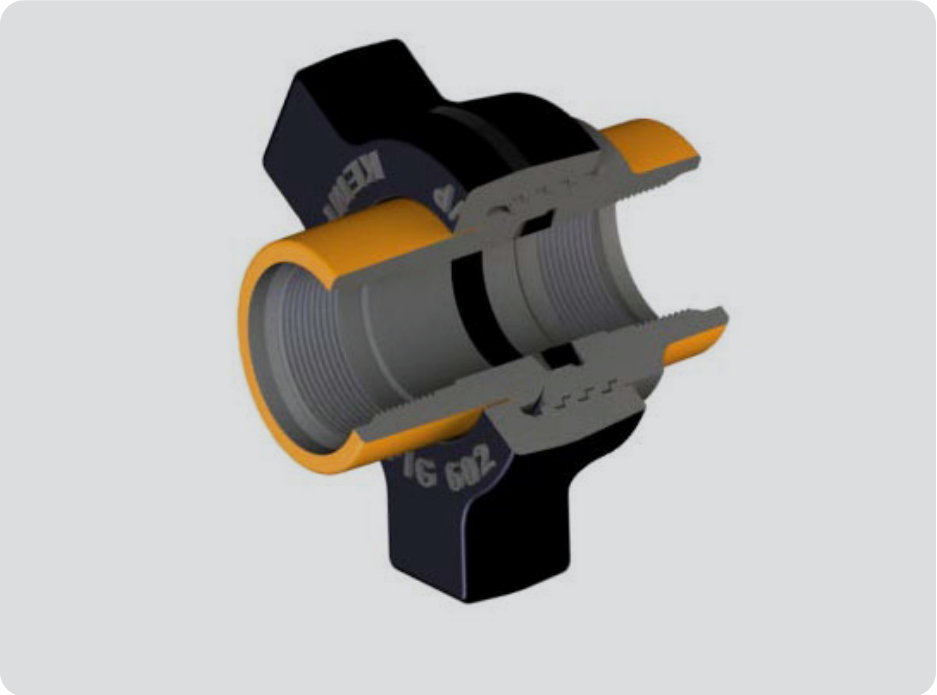
FIGURE 400 - Black Nut, Red Subs



DESIGN FEATURES

- 4,000 psi
- For maximum manifold connections, suction lines, and mud systems
- Ball and cone sealing that provides easy alignment and dependable seals
- Steel forgings made of heavy, durable, rugged material

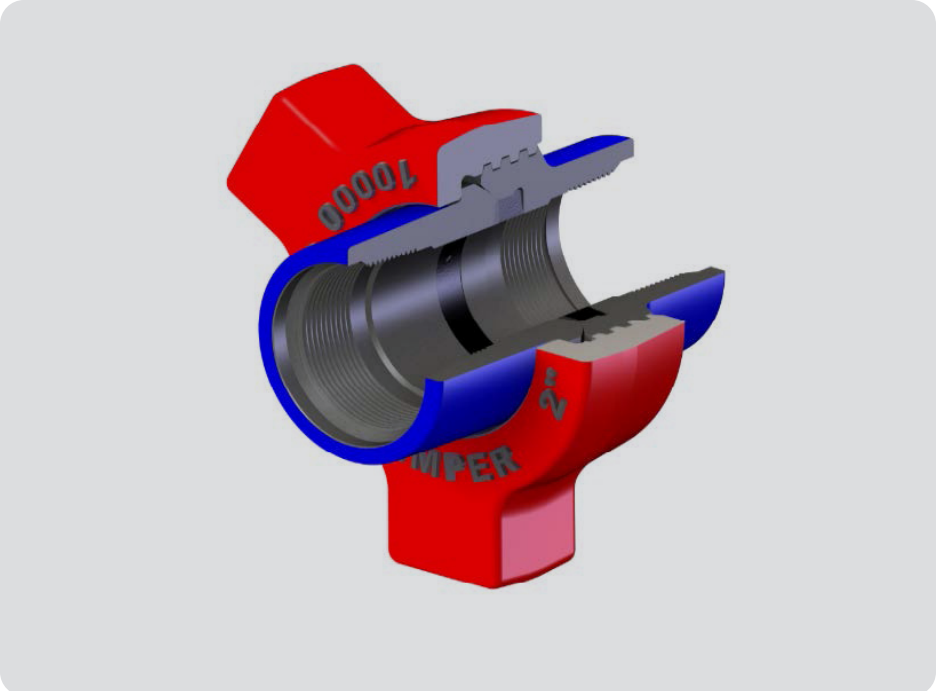
FIGURE 602 - Black Nut, Orange Subs



DESIGN FEATURES

- 6,000 psi
- For line connections, manifolds, mud, and service systems
- Resilient nitrile seal ring that helps sealing and protects steel-to-steel seating of the union

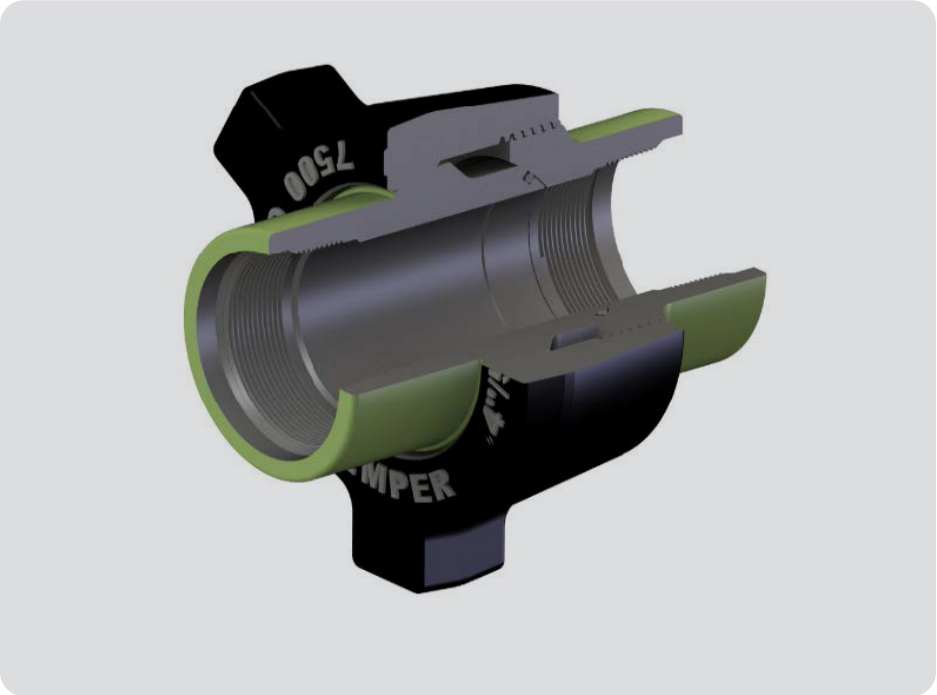
FIGURE 1002 - Red Nut, Blue Subs



DESIGN FEATURES

- 10,000 psi
- For cementing, acidizing, fracturing, and choke lines
- Alloy steel body that is durable, rugged, and dependable

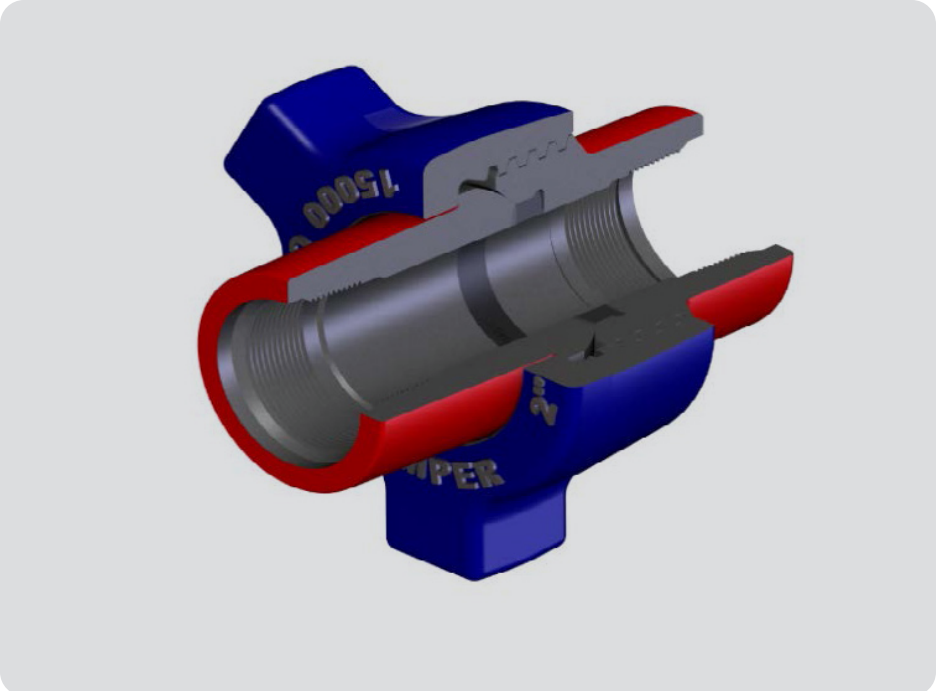
FIGURE 1003 - Black Nut, Green Subs



DESIGN FEATURES

- 10,000 psi
- High pressure water, oil, mud, or gas service where pipe alignment is a problem
- Nitrile o-ring that assures a pressure tight connection in any position of misalignment
- Steel-to-steel seating

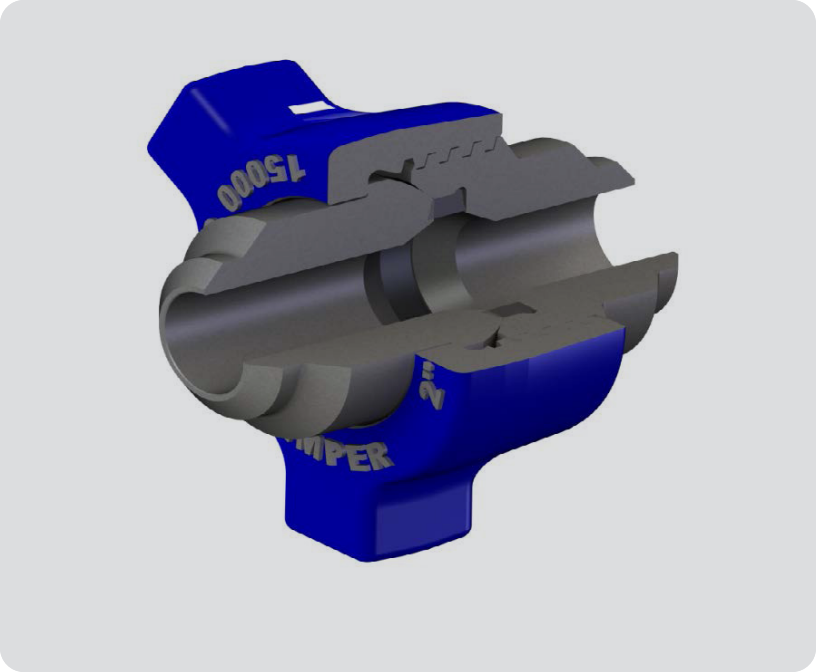
FIGURE 1502 - Blue Nut, Red Subs



DESIGN FEATURES

- 15,000 psi
- Cementing, fracturing, acidizing, and choke lines where welded or permanent API tubing thread fittings are required
- Nitrile seal ring that is easily replaceable and resilient
- Alloy steel body with a rugged design and heavy walls that ensure a built-to-last durable product

Butt Weld Unions



SCHEDULES	PRESSURE
40	Low
80	Low
160	High
XXH	High

PRODUCT DESCRIPTION

- Oilfield hammer unions are manufactured to match specific pressure ratings and requirements.
- We offer a variety of butt weld schedules for most hammer union figures.
- Low pressure 4,000 psi and below. Higher pressure 6,000 psi and above.

Seal-O-Grip Unions

SIZES
4 in
6 in
8 in
10 in
12 in
14 in
16 in

DESIGN FEATURES

- Quickly connect to mud suction and return lines
- Air inflatable tight seal between mud tanks
- Allows for misalignment while still maintaining a seal
- Seal-O-Grip body (ASTM A216) welds to mud tanks, manifold pipe etc.
- Heavy duty, oil and abrasion-resistant inflatable tube designed for 200 psi max pressure

Actual product color may vary depending on pressure rating.

STYLE 10

SIZES	CONFIGURATION	SERVICE TYPE
2 in	1502M x 1502F	Standard Service
2 in	1502M x 1502M	Standard Service

PRODUCT DESCRIPTION

- Swivels are available in 2" and 3" sizes and pressure up to 15,000 psi
- All swivels feature uniform wall thickness throughout for consistent flow of fluids and extended life
- Available in style 50 and style 10 configurations
- Rotation of the swivels will vary base on configuration, with options availabe to provide movement in numerous planes
- Designed for optimized distribution of material for ball races
- An insufficient number of swivels or improper make-up for a given installation can lead to unacceptable loads on the entire piping system leading to premature failure of seals or accelerated wear on the product
- Swivels are not designed for side loading – loading that will induce a bending moment into the ball races is prohibited
- Three points of rotation are recommended for installations. This will allow the swivel to accommodate the free movement of the lines in all planes
- Recommended that a routine maintenance program be followed for replacement of packing and seals

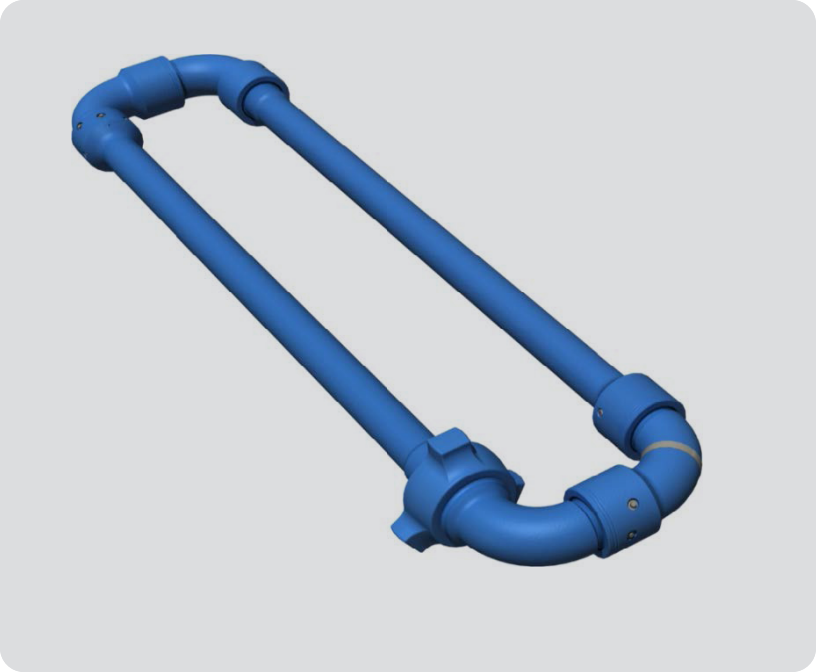
STYLE 50

SIZES	CONFIGURATION	SERVICE TYPE
2 in	1502M x 1502F	Standard Service

PRODUCT DESCRIPTION

- Swivels are available in 2" and 3" sizes and pressure up to 15,000 psi
- All swivels feature uniform wall thickness throughout for consistent flow of fluids and extended life
- Available in style 50 and style 10 configurations
- Rotation of the swivels will vary base on configuration, with options availabe to provide movement in numerous planes
- Designed for optimized distribution of material for ball races
- An insufficient number of swivels or improper make-up for a given installation can lead to unacceptable loads on the entire piping system leading to premature failure of seals or accelerated wear on the product
- Swivels are not designed for side loading. Loading that will induce a bending moment into the ball races is prohibited
- Three points of rotation are recommended for installations – this will allow the swivel to accommodate the free movement of the lines in all planes
- Recommended that a routine maintenance program be followed for replacement of packing and seals

Hose Loops



SIZES	LENGTH	PRESSURE	SERVICE TYPE
2 in	8 ft	1502	Standard Service
2 in	10 ft	1502	Standard Service
2 in	12 ft	1502	Standard Service

PRODUCT DESCRIPTION

- High pressure cementing / circulating hose loops for test lines, fracturing, acidizing, cementing, and well servicing up to 15,000 psi CWP
- All-Steel Hoses utilize field-proven swivel joint technology for greater flexibilitiy, shock and vibration resistance, and uniform flow
- Manufactured to the highest quality standards in the industry
- Optimal combination of core strength and case hardness without sacrificing ductility
- Hoses are designed to ealiy and conveniently fold up for storage and transportation
- Maintenance, rebuild and recertification is available through our service locations

Low Torque Plug Valves–STD

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	1 in x 2 in, 2 in, 3 in

Actual product color may vary depending on pressure rating.

Check Valves–Swing Check Standard Flow or Reverse Flow

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	2 in, 3 in, 4 in
1002	10,000 psi/689.5 bar	3 in

Choke Valves–STD

FIGURE	NSCWP ADJUSTABLE	SIZE
1502	15,000 psi/1034.2 bar	2 in, 3 in

FIGURE	POSITIVE	SIZE
1502	15,000 psi/1034.2 bar	2 in, 3 in

Actual product color may vary depending on pressure rating.

Dart Valves

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	1 in, 1.5 in, 2 in, 3 in

Pressure Relief (POP-OFF) Valves–STD

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	2 in

Actual product color may vary depending on pressure rating.

Cross

FIGURE	NSCWP STD PSI/BAR	SIZE
1502	15,000/1034.2	2 in, 3 in

Ell (90 degree)

FIGURE	STD PSI/BAR	SIZE
1502	15,000/1034.2	2 in, 3 in

Actual product color may vary depending on pressure rating.

Ell (45 degree)

FIGURE	STD PSI/BAR	SIZE
1502 - STD	15,000/1034.2	2 in, 3 in

Integral Flowline Laterals

FIGURE	STD PSI/BAR	SIZE
1502	15,000/1034.2	3 in, 4 in
1002	10,000/689.5	4 in

Actual product color may vary depending on pressure rating.

Tees

FIGURE	STD PSI/BAR	SIZE
1502	15,000/1034.2	2 in, 3 in, 4 in
1502	10,000/689.5	4 in

Wye

FIGURE	STD PSI/BAR	SIZE
1502	15,000/1034.2	2 in

Actual product color may vary depending on pressure rating.

Flow Line Bull & Gage Plugs–STD

FIGURE	NSCWP	SIZE
200	2,000 psi/137.9 bar	4 in
206	2,000 psi/137.9 bar	2 in, 4 in
1002	10,000 psi/689.5 bar 7,500 psi/517.1 bar	3 in, 4 in 5 in
1502	15,000 psi/1034.2 bar	2 in, 3 in, 4 in, 5 in

Hammer Union Crossover - STD

FIGURE	NSCWP	SIZE
1002	10,000 psi/689.5 bar	4 in
1502	15,000 psi/1034.2 bar	2 in, 3 in, 4 in

Actual product color may vary depending on pressure rating.

Blast Subs - STD

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	2 in, 3 in

Hammer Union Swages-STD

FIGURE	NSCWP	SIZE
1502	15,000 psi/1034.2 bar	2 in

Actual product color may vary depending on pressure rating.

Pup Joints–Non-Pressure Seal (NPS)–STD

FIGURE	NSCWP	SIZE	ID
1502	15,000 psi/1034.2 bar	2 in	1.67 in
1502	15,000 psi/1034.2 bar	3 in	2.43 in
1002	10,000 psi/689.5 bar	4 in	3.50 in
1502	15,000 psi/1034.2 bar	4 in	3.50 in

Pup Joints–Integral (IE)–STD

FIGURE	NSCWP	SIZE	ID
1502	10,000 psi/ 689.5 bar	2 in	1.75 in
1502	10,000 psi/ 689.5 bar	3 in	2.50 in
1002	10,000 psi/ 689.5 bar	3 in	2.75 in
1502	10,000 psi/ 689.5 bar	4 in	3.75 in

Actual product color may vary depending on pressure rating.

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