



# ***PRODUCT CATALOG***

***TOGETHER, WE GET IT DONE.***



***SPM™ Oilfield Consumables***

[spmoilandgas.com](http://spmoilandgas.com)







## SPM. NO NAME DOES MORE.

From the pump to the wellhead—and beyond—SPM supplies the oilfield with the most trusted product families of pumps, flow iron, surface equipment, and frac rental stock in the industry.

But our parts do more when they're in the right hands. SPM is trusted by the pros because we stock the premium products like Kemper, Seaboard, and Novatech that increase efficiency and reduce NPT. Customers ask for SPM because they know they'll get the job done right—the first time—when they turn to our parts and products.

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



# Contents



## Equipment Solutions

1,500/3,000/5,000 PSI Stackup	5
-------------------------------	---

## Rod Clamps

Indention-type Clamp	6
Friction-type Clamp	7

## Rod Rotators

W-164/164SG, W-252, W-302/302SG, W-303/303SG, W-304/304SG	8
---	---

## Polished Rod Accessories

Rod Lubricator with Wicks	9
Leveling Plates	10
Polished Rod Bullet	11
Stuffing Box Clamp	12

## Stuffing Boxes

Stuffing Box (W-SB)	13
Double Pack Stuffing Box (W-DPSB)	14
Tee Based Stuffing Box (W-SBT)	15
Inverted Stuffing Box (W-IVSB)	16
Inverted Double Pack Stuffing Box (W-IVDPSB)	17
Inverted Tee Based Stuffing Box (W-IVSBT)	18
1500# Big Shot Stuffing Box (W-BS)	19
1500# Big Shot Double Pack Stuffing Box (W-BSDP)	20
3K Big Shot Double Pack Stuffing Box (BSDP)	21
Pollution Controlled Double Pack Stuffing Box (W-PCDP)	22
Pollution Control Big Shot Double Pack (W-PCBSDP)	23
Pollution Control High Pressure Big Shot Stuffing Box (W-PCHPBS)	24
High Temperature Double Pack Stuffing Box (DHPH)	25

## Glands

High Pressure Lube Upper Gland (W-HPLUG)	26
Big Shot BS-HPLUG	26
Lube Upper Gland (W-LUG)	27
Fluid Reservoir Gland (FRG)	28

## Packing

Cone & Dee Packing Products	29
V-Packing Products	30
Stuffing Box Packing Options: CP Style, QT Style	31

## Accessories Used with Dee Packing

Conversion Kit from Cone Packing to Dee Packing	32
W-HPLUG/FRG Adapter with Dee Packing	32

## Hookup Accessories

3K Pumping Tee	33
5K Pumping Tee	33

## Blow Out Preventors

W-212 BOP	34
W-150 BOP	35
W-150H BOP	36

## Environmental Control Adapters (ECA)

Standard	37
Environment Control Adapters (ECA) with Weight Activated Switch	37

## Tubing Rotators

W2 Tubing Rotator	38
-------------------	----

## Wellheads

W2 Profile Tubing Head	39
Tubing Head	40
W92 Casing Head	41

## Geothermal Wellhead

Drilling Flanges	42
------------------	----

## Wellhead Accessories

Drilling Flanges	43
Companion Flange	44
Belled Nipples	45

## Sucker Rod Guides

STANDARD Sucker Rod Scraper	46
LG (Long Guide) Sucker Rod Guides	46
LGXW (Long Guide-Extra Wide) Sucker Rod Guides	47
MRG (Mid-Range Guide) Sucker Rod Guides	47
Helix Jr. Sucker Rod Guides	49
Helix Sucker Rod Guides	48
SRC (Sucker Rod Centralizer) Sucker Rod Guides	49



## Unions

Oilfield Hammer Unions—STD	51
Hammerseal Unions—STD	52

## Oilfield Hammer Unions

Figure 100	52
Figure 200	52
Figure 206	53
Figure 207	53
Figure 211	54
Figure 400	54
Figure 602	55
Figure 1002	55
Figure 1003	56
Figure 1502	56

## Butt Weld Unions

Butt Weld Unions	57
------------------	----

## Seal-O-Grip Unions

Seal-O-Grip Unions	58
--------------------	----

## Swivel Joints

Style 10	59
Style 50	60

## Hose Loops

Hose Loops	61
------------	----

## Valves

Check Valves	62
Choke Valves—STD	62
Dart Valves	63
Pressure Relief (POP-OFF) Valves—STD	63
Low Torque Plug Valves—STD	64

## Flowline Integral Fittings

Cross	65
EII (90 degree)	65
EII (45 degree)	66
Integral Flowline Laterals	66
Tees	67
Wye	67

## Bulls, Crossovers, Swages

Flow Line Bull & Gage Plugs—STD	68
Hammer Union Crossover - STD	68
Blast Subs - STD	69
Hammer Union Swages-STD	69

## Pup Joints

Pup Joints—Non-Pressure Seal (NPS)—STD	70
Pup Joints—Integral (IE)—STD	70



## Valves, Seats, and Pistons

Cast-N-Place Drilling Valve & Seat	72
Valve & Seat	73
Pistons	74



# PRODUCTS BUILT TO LEVEL THE OILFIELD.

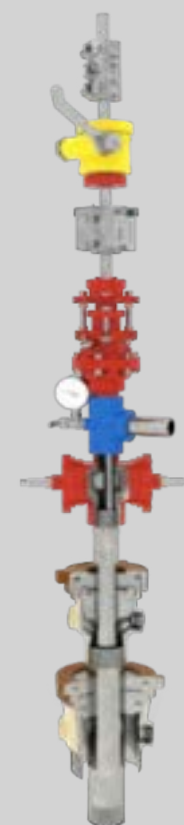
We offer the products you need for your Rod Lift system, including the polished rod clamp, rod rotator, stuffing box, flow tee and blowout preventer. Build your entire system with SPM Seaboard, or pair our products seamlessly with any existing production equipment.



PRODUCTION EQUIPMENT



## 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

BENEFITS

- Reduced size with no decrease in weight load capacity

ADVANTAGES

- 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



- 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	3,000 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

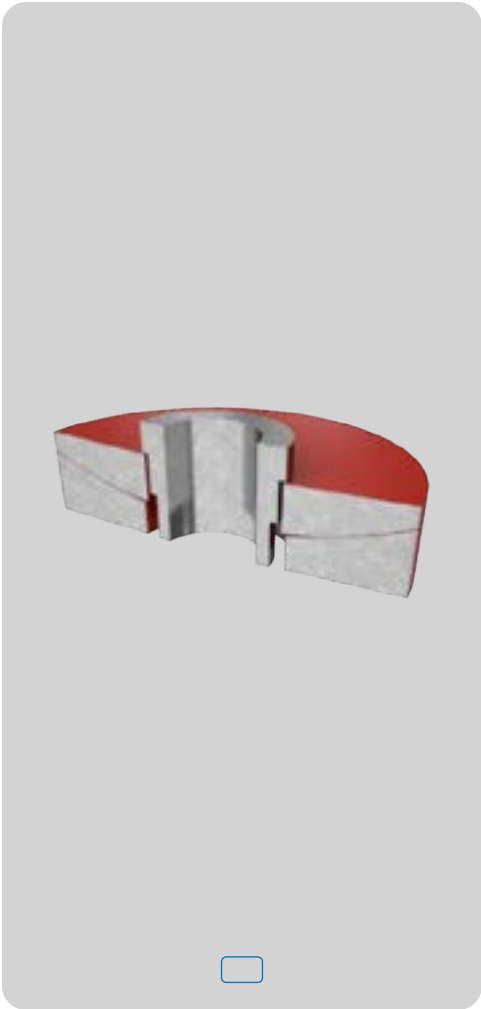
Rod Lubricator with Wicks



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
- BENEFITS**
- Lubrication extends stuffing box packing life
- ADVANTAGES**
- 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

BENEFITS

- Designed to help minimize polished rod breaks

ADVANTAGES

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

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



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

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	

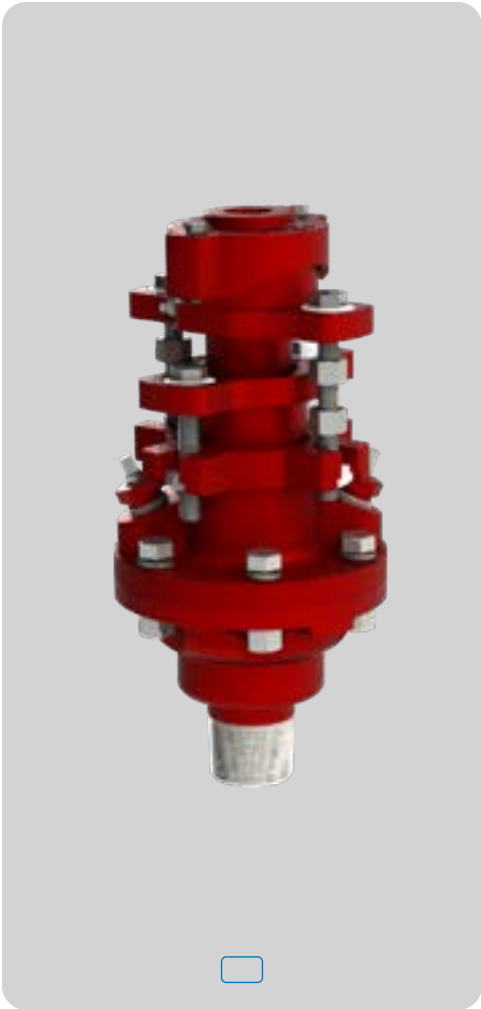
PIECES OF SPLIT CONES REQUIRED	
Top Cones	4
Bottom Cones	1

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 x 2 in LP
2 7/8 in EUE 8rd x 2 in LP
2 7/8 in EUE 8rd x 3 in LP
3 1/2 in EUE 8rd x 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

ADVANTAGES

- 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

ADVANTAGES

- 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 x 2 in LP	
2 7/8 in EUE 8rd x 2 in LP	
2 7/8 in EUE 8rd x 3 in LP	
3 1/2 in EUE 8rd x 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**

- Available with pollution control check valve
- Available in flanged or threaded versions
- For improved performance, use in conjunction with H-plug Benefits
- 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

BENEFITS

- 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

BENEFITS

- 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

BENEFITS

- 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

BENEFITS

- 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.

Cone & Dee Packing Products



MATERIAL	MAXIMUM % H <sub>2</sub> S	MAXIMUM TEMPERATURE	ROD SIZES
BUNA SOFT	2%	110°F (43°C)	1 in
Soft lubricated	2%	110°F (43°C)	1 1/8 in
PFTE	5 – 8%	500°F (250°C)	1 1/4 in
PFTE filled	2%	110°F (43°C)	1 5/16 in
HSN	8 – 10%	355°F (180°C)	1 3/8 in
Brass filled	5%	130°F (70°C)	1 1/2 in
HT Kevlar brass filled	30%	650°F (345°C)	1 3/4 in
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)	

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<sub>2</sub>S

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<sub>2</sub>S 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.

## 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 psi 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

FOR ADDITIONAL FLOW OFFERINGS FROM SPM™ OIL & GAS [CLICK HERE](#)

Environmental Control Adapters (ECA)



ROD SIZES	
Container	Switch
Stainless steel	Explosion proof
Plastic (not shown)	Standard

- 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<sub>2</sub>S

- BENEFITS**
- Reduces spills due to leakage

- ADVANTAGES**
- Corrosion-resistant components

Environmental 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

- BENEFITS**
- Reduces spills due to leakage

- ADVANTAGES**
- Corrosion resistant components

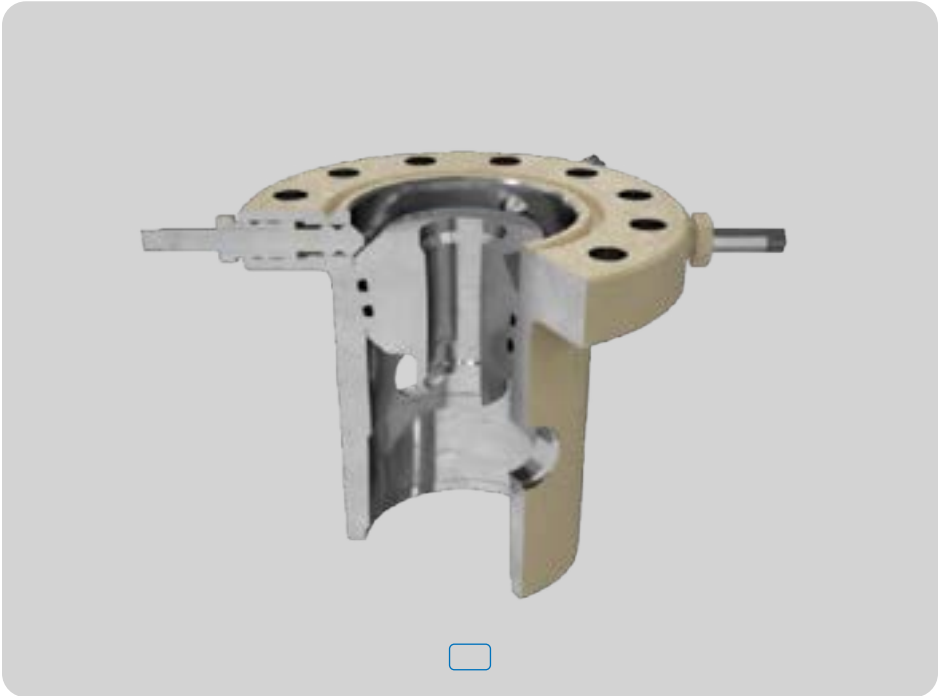
W2 Tubing Rotators



- DESIGN FEATURES**
- Fits standard W2 tubing head
  - Actuated by pump jack
  - Tubing rotator can be removed for maintenance without disturbing hanger or tubing string
  - Rotator drive elements protected from well bore

SPECIFICATIONS	
Top connection	2 7/8 in EUE 8rd male
Pressure ratings	2-3,000 psi
Tubing sizes	2 7/8 in EU 8rd
Tubing head flange size	7 1/16 in
Rotator height	9.0 in
Hanging load rating	125,000 lbs
Rotating operation	Pump jack coated
Temperature rating	0°– 300°F (0°–149°C)
Materials	NACE compliant for sour service
Rotation	~8.5 rotations per day (based on operating 24 hours)

W2 Profile Tubing Head



- DESIGN FEATURES**
- 2,000 psi/3,000 psi/5,000 psi working pressure
  - 4,000 psi/6,000 psi/7,500 psi test pressure
  - Slip flange available with 85,000 lbs maximum slip load
  - Tapered bowl-profile tubing head
  - Tubing head available with bottom threaded or slip on weld connection
  - Tubing head available with bottom threaded or slip on weld connection
  - Flanged top connection available with thread or flange up
- ADVANTAGES**
- Unique V-style rubber packing ring which energizes under pressure to provide superior seal in slip flange style

SPECIFICATIONS	W2 2,000 PSI	W2 3,000 PSI	W2 5,000 PSI
Test pressure	4,000 psi	6,000 psi	7,500 psi
Hold down screws	4	4	4 or 6
Stud nut sizes	1 in 8UN × 7 1/2 in (12)	1 1/8 in 8UN × 8 1/2 in (12)	1 3/8 in 8UN × 11 1/4 in (12)
Weight	220 lbs	285 lbs	500 lbs
Body material	Forged		
Suspension type	Threaded, slip or mandrel		
Bottom thread	4 1/2 in, 5 1/2 in, 7 in		
Bottom connection	LTC box or SOW		
Tubing size	2 – 3 in		
Side outlets	2 in LP		
Minimum bore	4.06 in, 5.12 in, 6.38 in		
Height	18 1/2 in		



Tubing Head



DESIGN FEATURES

- Max 3,000 psi working pressure
  - 6,000 psi test pressure
- 85,000 lbs maximum slip load

BENEFITS

- Available in both slip style for pumping well or mandrel style for gas well applications
- Unique V-style rubber packing ring which energizes under pressure to provide superior seal in slip style

SPECIFICATIONS

Bottom connection	8rd or SOW
Test pressure	6,000 psi
Max slip load limit	85,000 lbs
Cap thread	C7 5/8 in mod 8rd
Cap/body material	Steel
Type suspension	Slip or mandrel
Side outlets	2 in LP
Stripper rubbers	2–3 in
Body material	Steel
Height - WR	13 3/8 in
Weight - WR	132 lbs
Height - WSR	19 1/8 in
Weight - WSR	187 lbs
Minimum bore	4.06 in, 5.12 in, 6.38 in
Bottom thread	4 1/2 in, 5 1/2 in, 7 in
Inner string size	1–2 1/2 in, 1–3 in, 1–3 in

W92 Casing Head



DESIGN FEATURES

- Max 2,000 psi working pressure
  - 4,000 psi test pressure rating
- 176,000 lbs maximum slip load

BENEFITS

- Unique V-style rubber packing ring which energizes under pressure to provide superior seal in slip style
- Slips can be attached on the rig floor

SPECIFICATIONS

Bottom thread	7 in	7 5/8 in	8 5/8 in	9 5/8 in	10 3/4 in	11 3/4 in	12 3/4 in	13 3/8 in
Cap thread	8 5/8 in mod 8rd	10 3/4 in mod 8rd	10 3/4 in mod 8rd	11 3/4 in mod 8rd	12 3/4 in mod 8rd	16 in mod 8rd	16 in mod 8rd	16 in mod 8rd
Inner string size	4 1/2 in	4 1/2–5 1/2 in	4 1/2–7 in	4 1/2–7 5/8 in	4 1/2–8 5/8 in	4 1/2–9 5/8 in	4 1/2–9 5/8 in	4 1/2–9 5/8 in
Minimum bore	6.44 in	7.00 in	8.00 in	9.00 in	10.00 in	11.00 in	12.00 in	12.50 in
Weight	110 lbs	134 lbs	161 lbs	203 lbs	231 lbs	297 lbs	363 lbs	431 lbs
Height	13 5/8 in	13 5/8 in	13 5/8 in	13 5/8 in	13 5/8 in	15 7/8 in	15 7/8 in	15 7/8 in
Bottom connection	8rd or SOW							
Cap material	Steel							
Type suspension	Slip or mandrel							
Side outlets	2 in LP							
Body material	Steel							

Well Head



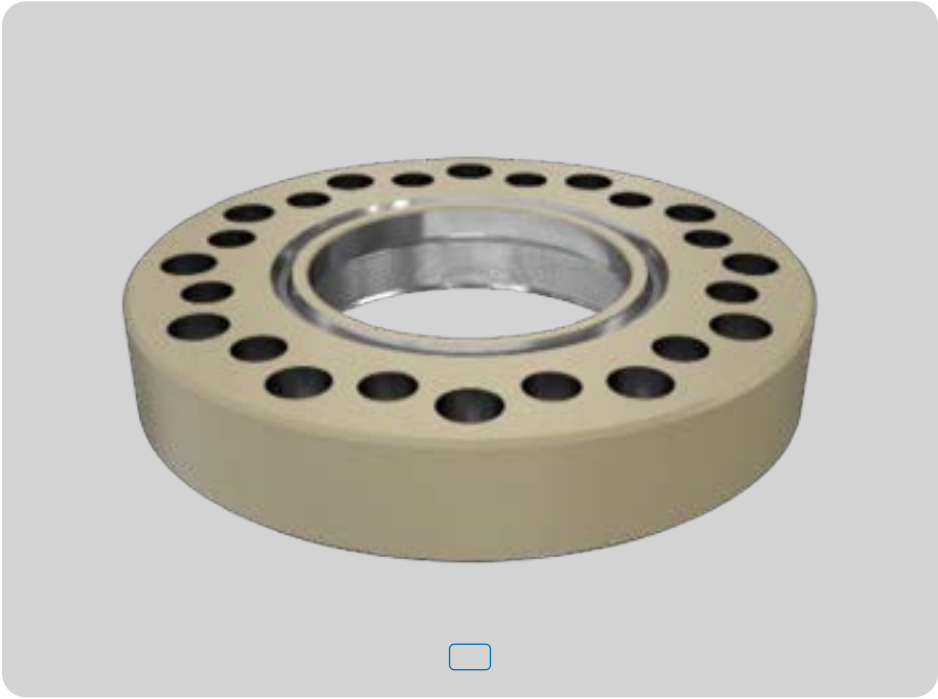
BENEFITS

- High-Tolerance advanced Inconel coating to line all wetting areas including the ID of Wellhead and all valve outlets to aid in withstanding highly corrosive environments
- Local installation teams available when you need them where you need them
- Advanced services technicians with extensive trainings to assist operators onsite
- Comprehensive testing to maintain safety onsite
- Ability to tolerate high temperatures up to 650°F

SPECIFICATIONS

Max temperature	Up to 650°F
Max total pressure	5,000 psi
Sizes	20 3/4 in, 16 3/4 in, 13 5/8 in
Endures Corrosive Fluids	CO <sub>2</sub> , H <sub>2</sub> S, NH <sub>3</sub> , Chloride Ions, and more

Drilling Flanges



DESIGN FEATURES

- Max 2,000 psi working pressures

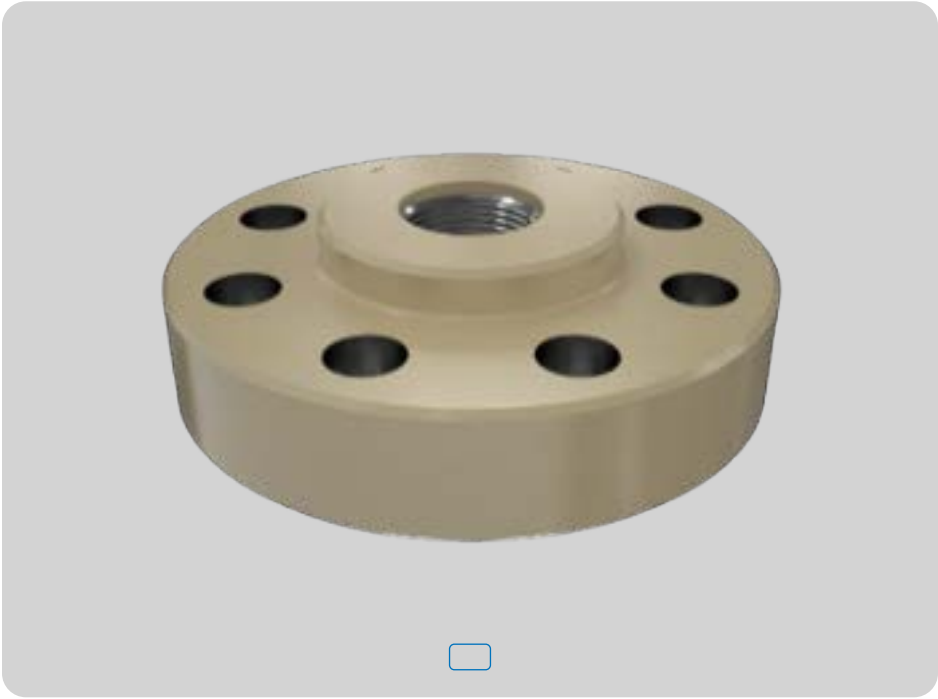
BENEFITS

- O-ring seal on flange face to wellhead
- Adapts a flanged BOP to an independent style or threaded wellhead connection

SPECIFICATIONS

API flange size	API Stated Pressure Rating	Thread size	Ring gasket	No. of studs	Stud size	For use with	O-ring size	Weight
7 1/16 in	2,000 psi	7 5/8 mod 8rd	R45	12	1 × 7 1/2 in	WK	2-440	56 lbs
9 in	3,000 psi	7 5/8 mod 8rd	R49	12	1 3/8 × 9 1/2 in	WK	2-440	87 lbs
7 1/16 in	2,000 psi	8 5/8 mod 8rd	R45	12	1 × 7 1/2 in	WR	2-443	56 lbs
7 1/16 in	3,000 psi	8 5/8 mod 8rd	R45	12	1 1/8 × 8/2 in	WR	2-443	56 lbs
9 in	3,000 psi	8 5/8 mod 8rd	R49	12	1 3/8 × 9 1/2 in	WR	2-443	87 lbs
7 1/16 in	2,000 psi	8 5/8 mod 8rd	R45	12	1 × 7 1/2 in	W92 7 in	2-444	65 lbs
9 in	3,000 psi	8 5/8 mod 8rd	R49	12	1/8 × 9 1/2 in	W92 7 in	2-444	87 lbs
11 in	2,000 psi	10 3/4 mod 8rd	R53	16	1/4 × 9 1/4 in	W92 8 5/8 in	2-448	172 lbs
11 in	3,000 psi	10 3/4 mod 8rd	R53	16	1 3/8 × 10 in	W92 8 5/8 in	2-448	171 lbs
11 in	2,000 psi	11 3/4 mod 8rd	R53	16	1 1/4 × 9 1/4 in	W92 9 5/8 in	2-450	164 lbs
11 in	3,000 psi	11 3/4 mod 8rd	R53	16	1 3/8 × 10 in	W92 9 5/8 in	2-450	163 lbs
13 5/8 in	2,000 psi	12 3/4 mod 8rd	R57	20	1 1/4 × 9 1/2 in	W92 10 3/4 in	2-452	156 lbs
13 5/8 in	3,000 psi	12 3/4 mod 8rd	R57	20	1 3/8 × 10 3/4 in	W92 10 3/4 in	2-452	155 lbs
13 5/8 in	2,000 psi	13 3/4 mod 8rd	R57	20	1 1/4 × 9 1/2 in	W92 12 3/4 in W92 13 3/8 in	2-458	183 lbs
13 5/8 in	3,000 psi	16 mod 8rd	R57	20	1 3/8 × 10 3/4 in	W92 11 3/4 in W92 12 3/4 in W92 13 3/8 in	2-458	183 lbs

Companion Flange



DESIGN FEATURES

- Manufactured to API 6A specifications
- Other sizes available

BENEFITS

- Adapts a flange connection to a threaded connection

SPECIFICATIONS

1 13/16 in 10,000 psi × 2 in LP F/5,000 service
1 13/16 in 10,000 psi × 2 3/8 in EUE 8rd F/5,000 service
2 1/16 in 5,000 psi × 2 in LP
2 1/16 in 5,000 psi × 2 3/8 in EUE 8rd
2 9/16 in 5,000 psi × 2 in LP
2 9/16 in 5,000 psi × 2 7/8 in EUE 8rd

Belled Nipples



DESIGN FEATURES

- Rated at 2,000 psi maximum working pressure
- 5,000 psi working pressure available in 4 1/2 – 7 in sizes

BENEFITS

- When used with a belled nipple, casing can be cut at desired length and Belled Nipple can be welded on
- Adapts plain end pipe to a male threaded connection

SPECIFICATIONS

SOW Connection size 8rd	Height	Weight
4 1/2 × 4 1/2 in	6 in	5 1/2 lbs
5 1/2 × 5 1/2 in	6 3/4 in	7 1/2 lbs
7 × 7 in	7 3/4 in	16 1/2 lbs
8 5/8 × 8 5/8 in	8 in	30 1/2 lbs
9/8 × 9 5/8 in	8 in	35 lbs
10 3/4 × 10 3/4 in	8 in	42 lbs

STANDARD Sucker Rod Scraper



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in
3 1/2 in

LENGTH
5 1/2 in

- DESIGN FEATURES
- Assists with removing paraffin from production tubing
  - Reduces sucker rod coupling and tubing contact
  - Tapered ends decrease turbulence which promotes laminar flow
  - Sleek design eliminates impact during installation
  - Longer vanes offer additional contact area with the tubing
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Greater erodible wear volume than standad industry designs
  - Available in all materials to suit well applications

LG (Long Guide) Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in
3 1/2 in

LENGTH
9 in

- DESIGN FEATURES
- Longer vane provides increased protection in deviated wells
  - Excellent erodible wear volume promotes increased run times
  - Reduces sucker rod coupling and tubing contact
  - Tapered ends decrease turbulence which promotes laminar flow
  - Sleek design eliminates impact during installation
  - Longer vanes offer additional contact area with the tubing
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Greater erodible wear volume than standad industry designs
  - Available in all materials to suit well applications

LGXW (Long Guide-Extra Wide) Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in
3 1/2 in

LENGTH
9 in

- DESIGN FEATURES
- Wider vane provides increased protection in deviated wells
  - Excellent erodible wear volume promotes increased run times
  - Reduces sucker rod coupling and tubing contact
  - Tapered ends decrease turbulence which promotes laminar flow
  - Sleek design eliminates impact during installation
  - Longer vanes offer additional contact area with the tubing
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Greater erodible wear volume than standad industry designs
  - Available in all materials to suit well applications

MRG (Mid-Range Guide) Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in

LENGTH
6 in

- DESIGN FEATURES
- Wider vane provides increased protection in deviated wells
  - Increased erodible wear volume as compared to standard guide designs
  - Reduces sucker rod coupling and tubing contact
  - Tapered ends decrease turbulence which promotes laminar flow
  - Sleek design eliminates impact during installation
  - Longer vanes offer additional contact area with the tubing
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Greater erodible wear volume than standad industry designs
  - Available in all materials to suit well applications



Helix Jr. Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in

LENGTH
5 in

- DESIGN FEATURES
- Dual, twisted, wide vane design offers increased protection in deviated wells
  - Angled vane design promotes smoother rod rotation
  - Reduces sucker rod coupling and tubing contact
  - Sleek design eliminates impact during installation
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Available in all materials to suit well applications

Helix Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 3/8 in
2 7/8 in
3 1/2 in

LENGTH
8 in

- DESIGN FEATURES
- Dual, twisted, wide vane design offers increased protection in deviated wells
  - Angled vane design promotes smoother rod rotation
  - Reduces sucker rod coupling and tubing contact
  - Sleek design eliminates impact during installation
  - Factory installed injection molded, provides greater bond to the sucker rod
  - Available in all materials to suit well applications

SRC (Sucker Rod Centralizer) Sucker Rod Guides



SUCKER ROD
3/4 in
7/8 in
1 in

TUBING
2 7/8 in
3 1/2 in

LENGTH
8 in

- DESIGN FEATURES
- For use in Progressing Cavity Pump applications
  - Two piece design, reduces friction and allow spool to rotate inside centralizer
  - Reduces sucker rod coupling and tubing contact
    - Centralizer sleeves are field replaceable
  - Factory installed injection molded spool
  - Temperature range up to 80°C / 180°F

**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.



**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, 10 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
400	4,000 psi/275.8 bar	2 in, 3 in, 4 in
400	2,500 psi/172.4 bar	12 in
602G	6,000 psi/413.7 bar	1 in, 1.5 in, 2 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, 1.5 in, 2 in, 3 in, 4 in, 5 in

Actual product color may vary depending on pressure rating.

FIGURE 100 - Black Nut, Yellow Subs



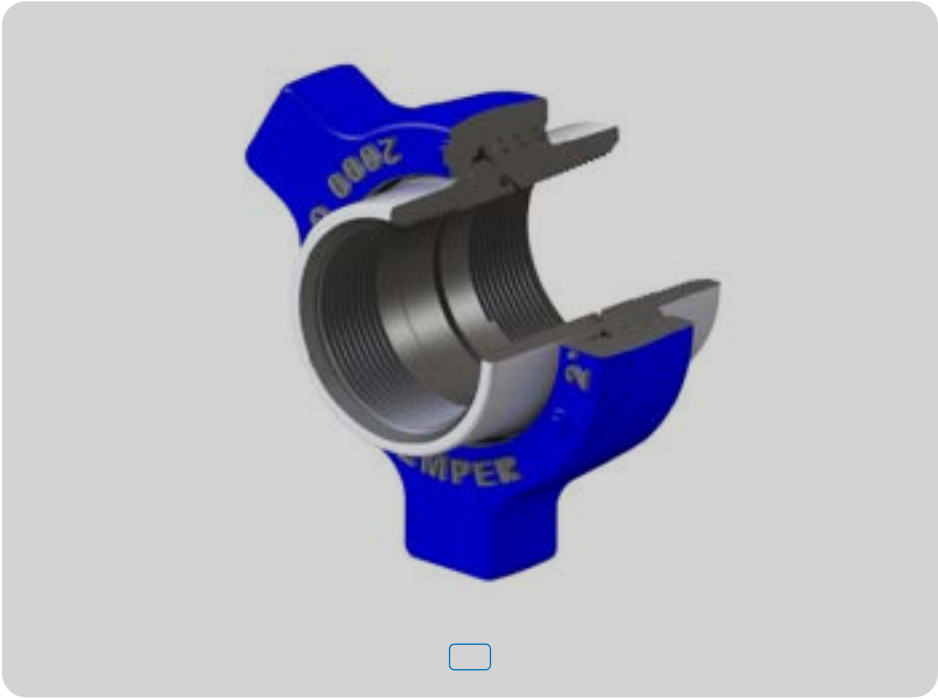
- DESIGN FEATURES**
- 1,000 psi
  - Low pressure line connections and manifolds
  - Tough, impact resistant ductile iron
    - Precision manufacturing of ball-cone seats

FIGURE 200 - Blue Nut, Gray Subs



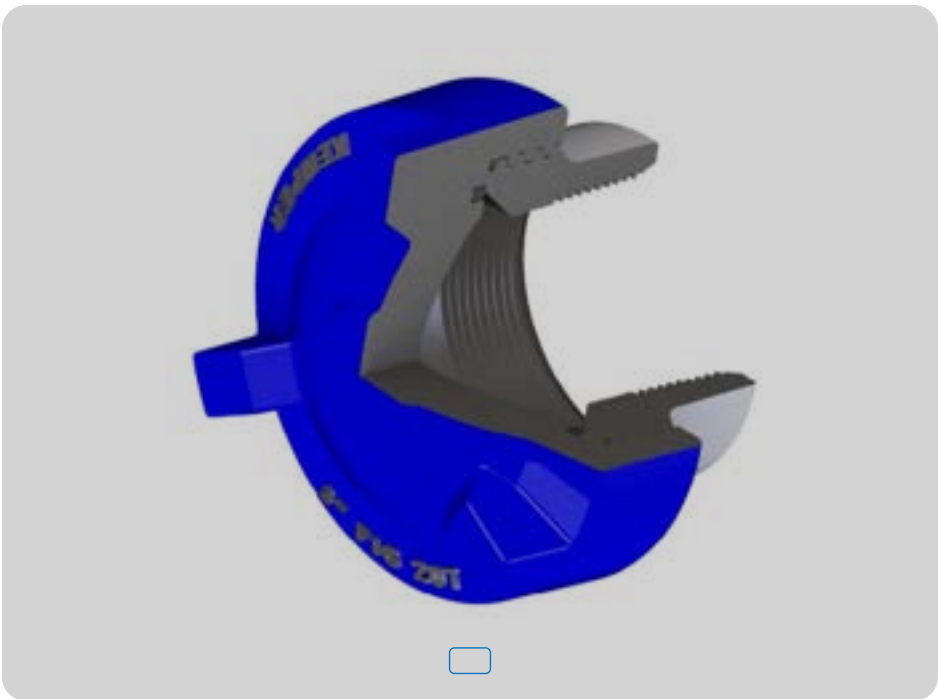
- DESIGN FEATURES**
- 2,000 psi
  - Line connections and manifolds
  - Medium pressure ranges for air, water, oil, or gas service
  - Forged carbon steel construction
    - Interchangeable with industry standards

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



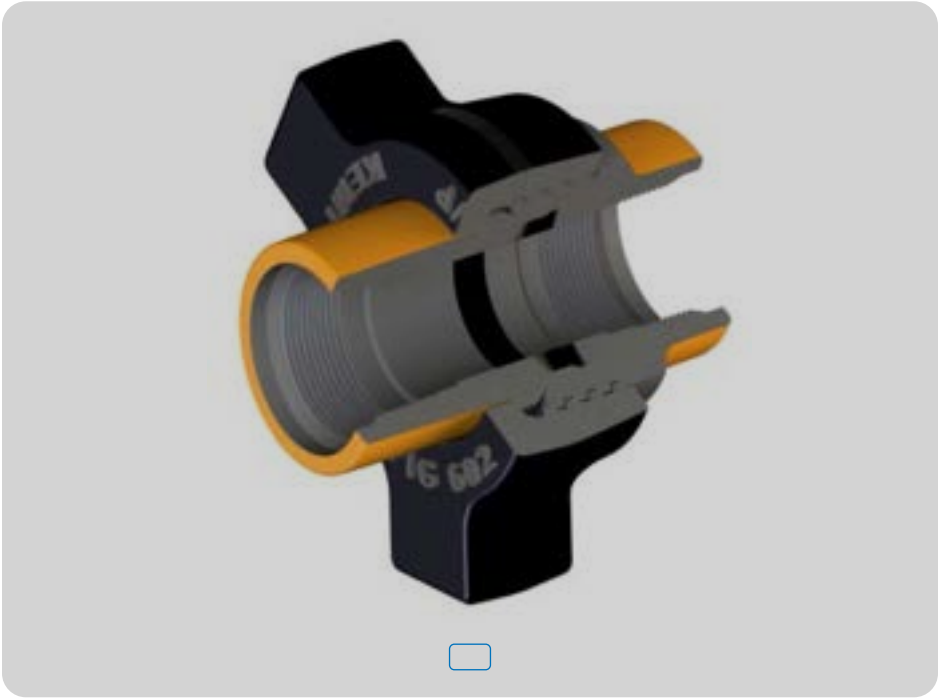
**FIGURE 211 - Grey Nut, Blue Subs**



**DESIGN FEATURES**

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

**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

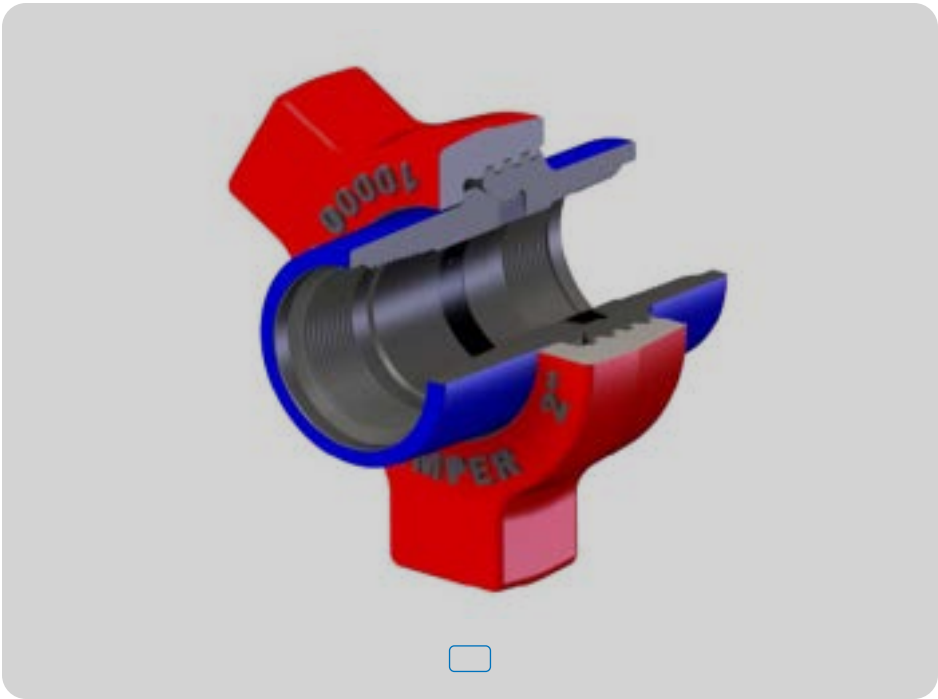
**FIGURE 400 - Black Nut, Red Subs**



**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 1002 - Red Nut, Blue Subs**

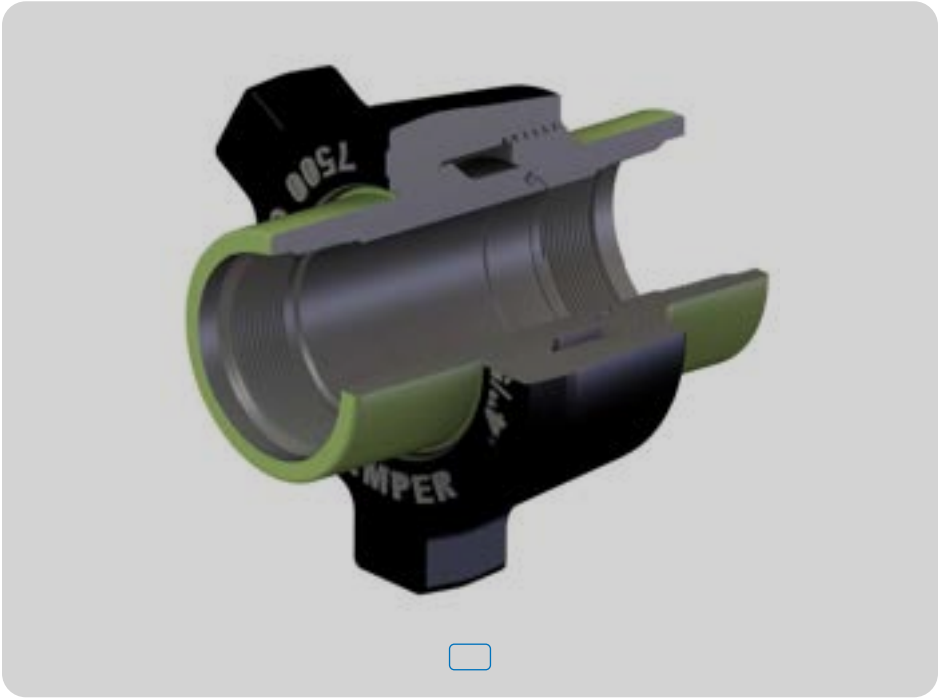


**DESIGN FEATURES**

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



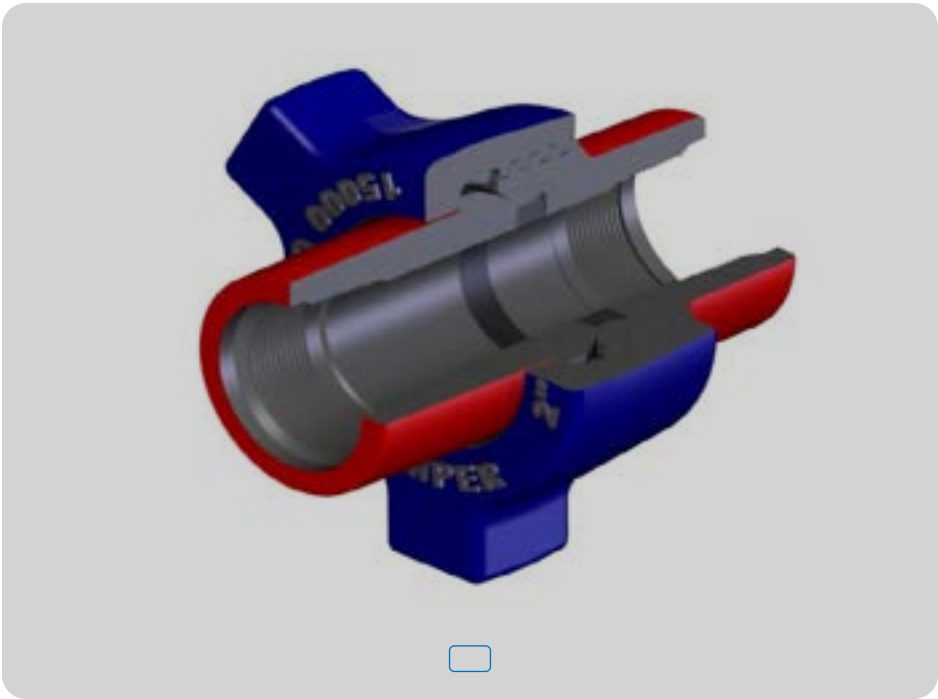
FIGURE 1003 - Black Nut, Green Subs



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

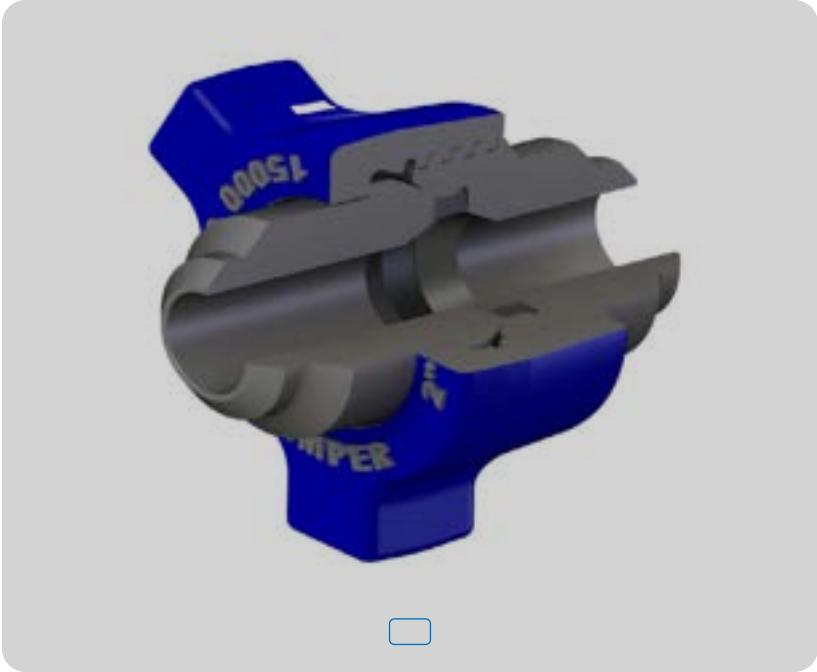
FIGURE 1502 - Blue Nut, Red Subs



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 domestically 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

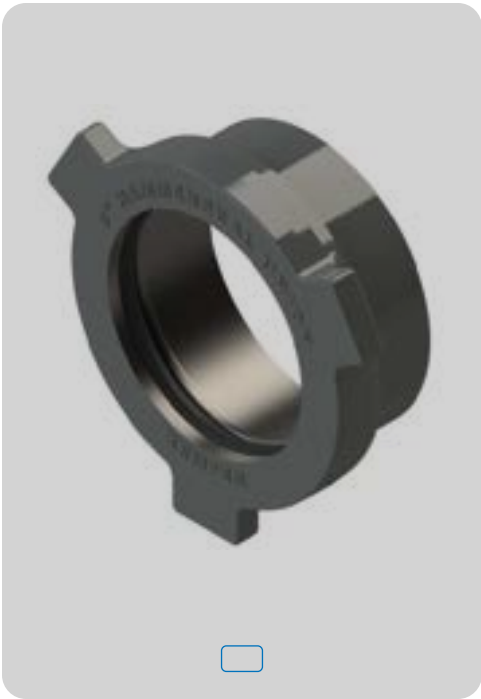


SIZES
4 in
6 in
8 in
10 in
12 in
14 in
16 in

**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

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

STYLE 10



SIZES	CONFIGURATION	SERVICE TYPE
2 in	1502M x 1502F	Standard Service
2 in	1502M x 1502M	Standard Service
3 in	1502M x 1502M	Standard Service
3 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
3 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, 4 in
1002	10,000 psi/689.5 bar	4 in

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



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

Cross



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

ElI (90 degree)



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

Ell (45 degree)



FIGURE	STD PSI/BAR	SIZE
1502	5,000/1034.2	2 in
1502	15,000/1034.2	3 in

Integral Flowline Laterals



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

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, 3 in

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

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, 3 in



***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	15,000 psi/1034.2 bar	2 in	1.75 in
1502	1502 15,000 psi/1034.2 bar	3 in	2.50 in
1002	1502 15,000 psi/1034.2 bar	3 in	2.75 in
1502	1502 15,000 psi/1034.2 bar	4 in	3.75 in

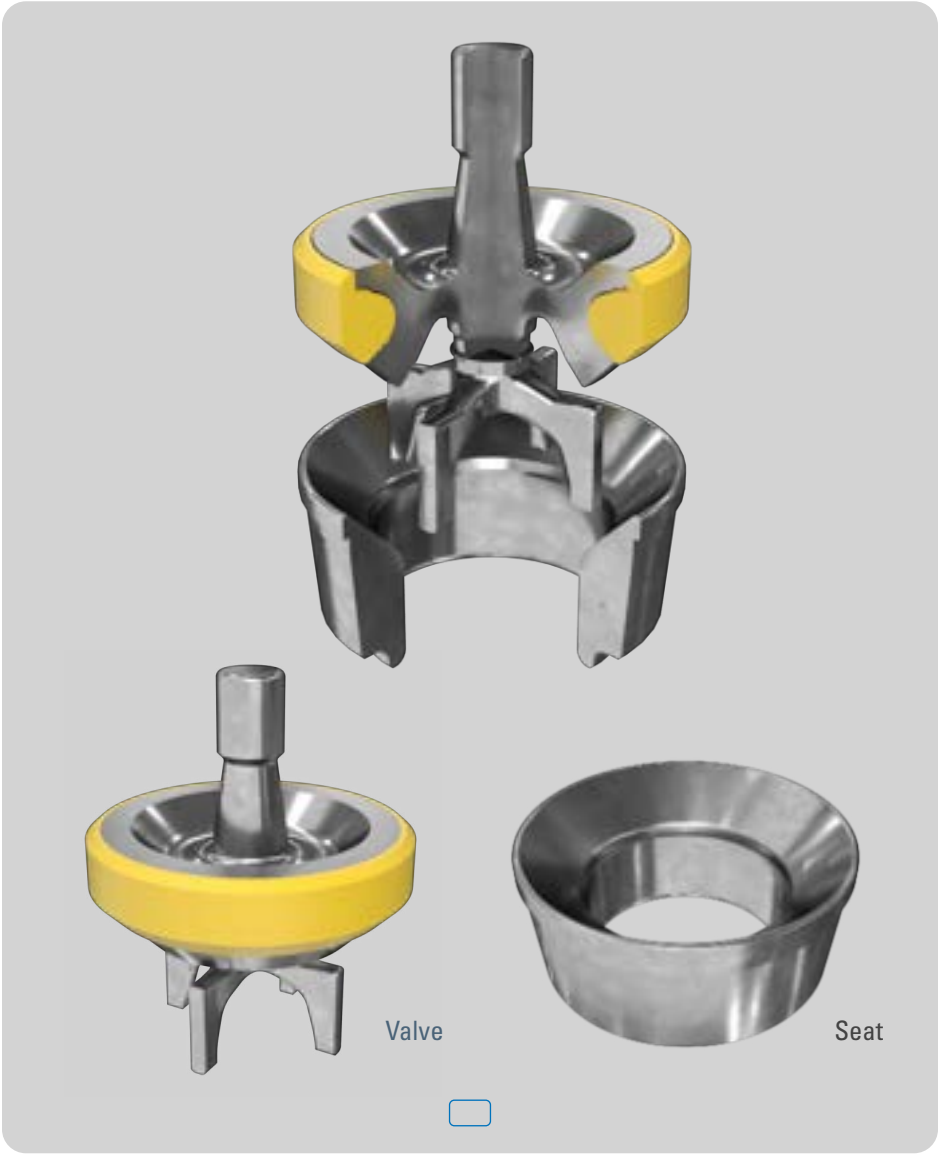
Actual product color may vary depending on pressure rating.

**DRILLING  
DOWN  
TO WHAT  
MATTERS.**

We've been setting the standard for drilling valves since 1970. From the world's first inertia friction welded valve and seat to being the trusted provider of mud pump consumables, SPM Novatech products deliver the quality and durability you need in the oilfield.



Cast-N-Place Drilling Valve & Seat



VALVE DESIGN

- Streamlined guide legs
- Hemispherical dome stores fluid
- Smoother flow and pump operation
  - Maximum bearing area reduces metal wear
- Extends valve and seat life
- Unique inertia-welded one-piece valve body combines advantages of a forging for strength with advantages of a casting for smooth streamlined flow

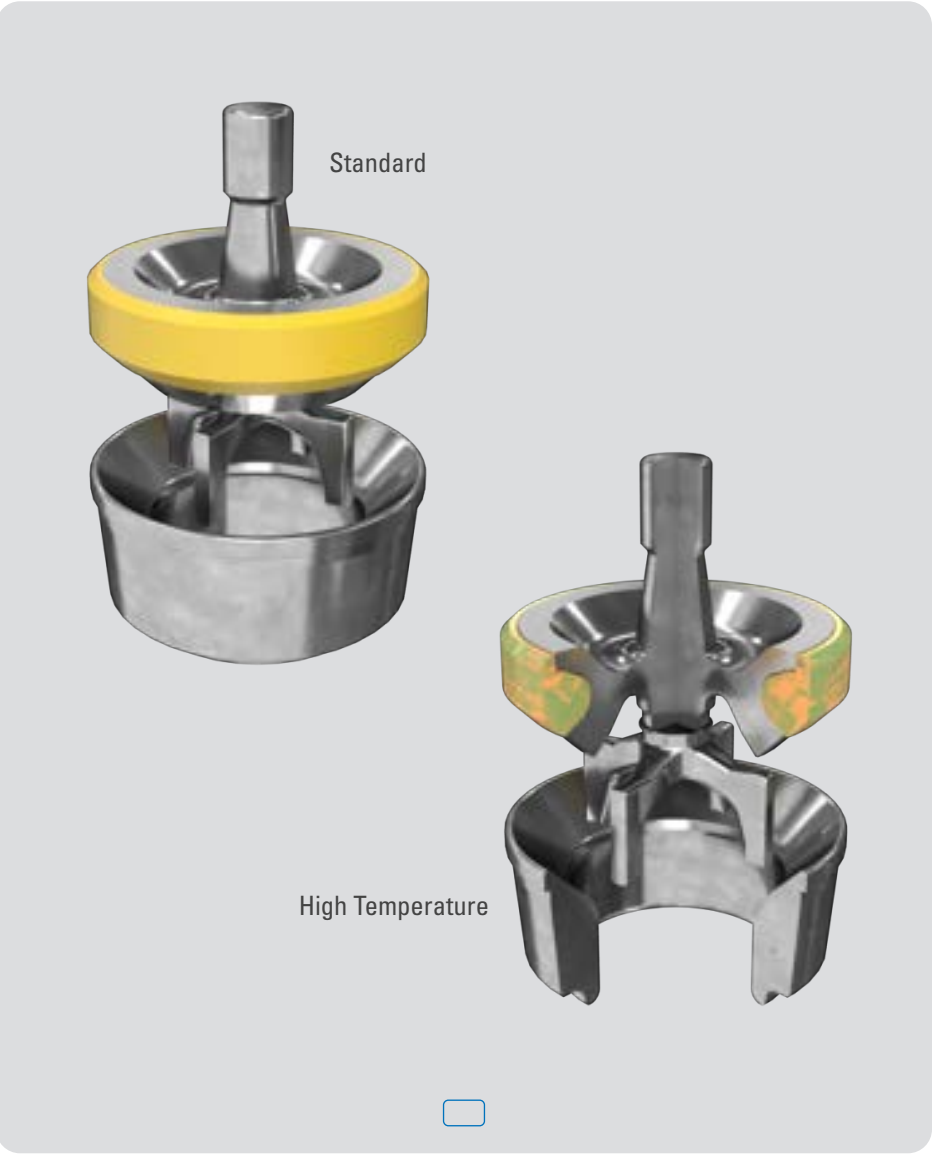
SEAT DESIGN

- Heavy-duty seat increases metal-to-metal bearing area—extends valve and seat life
- Provides uniform fluid end loading
  - Reduces fluid end stress
  - Reduces seat taper wear
- Serves to eliminate washouts
  - Heavy-duty puller head

PRODUCT DESCRIPTION

With high-pressure, high-temperature urethane, the Novatech cast-in-place valve and seat feature serrations in the valve that locks the urethane in place to reduce swelling and movement. Their tight concentricity reduces stress on the module, eliminating premature failures and increasing seat life even in the harshest conditions. Truly the industry’s strongest and most reliable valve and seat.

Valve & Seat



STANDARD

- Originally developed insert compound rated to 160°F
- Proven over time to be the most reliable insert in the industry
- Best all around insert for most drilling applications
  - Distinguished by the insert’s solid yellow color
- Cast-N-Place insert assures perfectly round inserts for quick sealing in all environments
- Serrations in valve insert groove lock insert in place reduce insert swelling and movement

HIGH TEMPERATURE

- Newly developed insert compound rated to 300°F
  - Distinguished by the insert’s translucent amber color
- Cast-N-Place insert assures perfectly round inserts for quick sealing in all environments
- Serrations in valve insert groove lock insert in place reduce insert swelling and movement
- Very hard insert can produce exceptional performance when combined with attentive pump maintenance



Pistons



PART	SIZE
SA-4.5-BU-H	4.5 in
SA-5.0-BU-H	5 in
SA-5.5-BU-H	5.5 in
SA-6.0-BU-H	6 in
SA-6.5-BU-H	6.5 in

PRODUCT DESCRIPTION

Novatech™ Pistons utilize Novatech’s proprietary black high-temperature polyurethane material with a traditional flex-lip design.

This high temperature polyurethane is a developed compound, rated to 300°F and available only through Novatech™.

The Novatech™ piston uses a single durometer material, as opposed to traditional dual durometer designs. Because of the high strength of the polyurethane at elevated temperatures, a dual durometer material is not necessary. Dual durometer materials increase cost and introduce another potential failure mode in the bond between the two materials. To eliminate this weak point, reduce costs and produce a more reliable piston, Novatech™ pistons are single durometer polyurethane.







**TOGETHER,  
WE GET IT  
DONE.**

76 Hardys Road,  
Torrensville, Adelaide 5031  
M: +61 409 573 658  
E: [stewart@summitoilfield.com.au](mailto:stewart@summitoilfield.com.au)  
W: [www.summitoilfield.com.au](http://www.summitoilfield.com.au)

**SPM<sup>™</sup> Oil & Gas**  
*A Caterpillar Company*

©2023 SPM Oil & Gas, Inc. All rights reserved. NOVATECH is a trademark and/or registered trademark of Novatech, LLC; CAST-N-PLACE is a trademark of Novatech, LLC. Certain aspects of the Cast-N-Place<sup>™</sup> feature referred to in this document are protected by patents pending and granted in the name of Novatech, LLC.  
©2023 SPM Oil & Gas PC LLC. All rights reserved. Seaboard is a trademark of Seaboard International, Inc.  
©2023 SPM Oil & Gas PC LLC. All rights reserved. Kemper is a trademark of SPM Oil & Gas PC LLC.