STUFFING BOXES

All Skinner "X" boxes use long life Skinner "B" packing. The packing and bronze bushings are the only parts necessary for changes in rod size. Threads are lathe cut to lie parallel and concentric with the bore of the box. SBC "X" boxes are available rod sizes 1-1/8" thru 1-3/4".

Type "X" Single – Fig. 1
For use on wells not requiring secondary packing. The "X" Single may be used with a blowout preventer when changing packing under pressure. Available with 2", 2-1/2" and 3" lower connections; weight approximately 60 lbs. Height above tee, 11".

Type "X" Cross Twin – Fig. 5
For use on wells where pressure conditions require double packing against the polish rod to prevent leakage or where packing must be replaced while under pressure. Available with 2", 2-1/2" and 3" lower connections. Weight approximately 90 lbs. Height above tee, 14-1/4".

SBC Blowout Preventer – Fig. 102
The SBC Blowout Preventer is made of ASTM A216 construction cast steel, grade WCB normalized. Easily changed, the retractable rubber-bonded-to-steel rams seat firmly against the polish rod. Available in tubing sizes of 2", 2-1/2" and 3" to accommodate 5/8" through 1-3/4" polish rods. Male and female connections. Weight, 42 lbs. Height, 9". Test pressure, 3000 PSI.

CONE TYPE BOXES

Single Pack
For use on wells not requiring secondary packing. Available in 2", 2-1/2" and 3" tubing sizes to accommodate polish rods of 1" through 1-3/4". Upper and lower glands are self-aligning and upper cone polishing ring standard. Weight, 26 lbs. Height above tee, 12". Working pressure, 1500 PSI.

Dual Pack
Excellent for intermittent flow conditions, the dual pack provides double packing to prevent leakage and will permit packing change under pressure. Available in 2", 2-1/2" and 3" tubing sizes to accommodate polish rods of 1" through 1-3/4". Upper and lower glands are self aligning and an upper cone polishing ring standard. Weight, 65 lbs. Height above tee, 15". Working pressure, 1500 PSI.

Tee Base
Designed to eliminate the need for a pumping tee on the well, this single pack SBC box is available in 2", 2-1/2" and 3" tubing sizes to accommodate polish rods of 1" through 1-3/4". Upper and lower glands are self aligning and an upper cone polishing ring standard. Female outlets of the tee offered in 2" through 3" thread sizes. Weight, 45 lbs. Height, 15". Working pressure, 1500 PSI.

Oil Reservoir Upper Gland
Ideal for wells that tend to burn packing by "running hot." As the polish rod moves through the oil it is both lubricated and cooled. A split cone ring controls the film on the upstroke; returns oil to the reservoir on the downstroke. Fits all SBC Cone Type Stuffing Boxes.

available only through authorized supply stores SKINNER BROTHERS CO., Inc.
**JACK TYPE BOXES**

**Regular Top**
Designed for use on any size polish rod up to 1-3/4". Changing to a different size polish rod is easily achieved by simply changing the upper and lower split bronze bushings and packing. Lower connections in 2", 2-1/2" and 3". Height above tee, 7". Weight, 15 lbs. Working pressure 2500 PSI.

**Lubricating Top**
Adding to the advantages of the SBC Regular Top Jack Box, the SBC Lubricating Top provides constant lubrication of the packing in the event of a pump off. Material construction is malleable iron with upper and lower split bronze followers for ease of replacement. Height above tee, 12-1/4". Weight, 24 lbs.

**Tee Type Regular Top**
As shown, SBC Jack Boxes are also available in a tee configuration eliminating the need for a pumping tee on the well. End connections available in male or female with Regular or Lubricating tops. Height above coupling varies from 10-3/4" to 15" and weight from 16 to 28 lbs. Working pressure, 3000 PSI.

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**RUBBER PRODUCTS**

Crown Rings
Cone Packing
Single Pipe Wipers
Stuffing Box Rubber Type "B"
Crown Polishing Rings
Rubber Gland Flange
Ratigan Packing

SBC offers a wide range of rubber and elastomer packings and products to accommodate virtually any well condition. Materials include Super-Econ, Hi-Temp, Gold Flake (brass impregnated), Loco (Teflon impregnated), rubber graphite and nitrile.

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**PUMPING & FLOW TEES**

"Yellow" Malleable Iron
"Red" Ductile Iron

SBC Tees are available in three basic materials, Malleable designated as "Yellow", Ductile, designated as "Red", and Aluminum "Bronze". Sizes range from 2" to 3"; slim hole from 1-1/2" to 2". Male or female type may be specified in any material. Every SBC tee is precision machined to assure proper center alignment of tubing, stuffing box, outlet and bleeder hole.

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**CAST IRON TUBING DISCS**

SBC Cast Tubing Discs have a groove cut to facilitate clean breaking. Any thread can be furnished.

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**PIPE REPAIR CLAMPS**

**Fig. 90**
Service Saddles.
WP of 2500 PSI for pipe 1" thru 4" with outlet pipe size from 1/8" thru 2".

**Fig. 91**
Nickel-Chrome band. Pipe sizes 1/2" to 8"; clamp lengths 3", 6", 9", 12".

**Fig. 92**
Nickel-Chrome band. Pipe sizes 10" thru 24"; clamp lengths 3", 6", 9", 12".
**PIPE REPAIR CLAMPS cont.**

- **Fig. 94** Emergency Clamp. Malleable. Pipe sizes 1/2", to 6"; clamp lengths 3 1/4" to 8".
- **Fig. 95** Emergency Clamp. Malleable. Pipe sizes from 2" to 6"; clamp lengths, 12" and 16".
- **Fig. 150** Collar leak Clamp Nickel-Chrome Band. Pipe sizes 1 1/2" to 6"; clamp lengths 3" to 6".
- **Fig. 89** Collar leak Clamp. API Line Pipe sizes from 2" to 6". API non Upset and Upset Tubing in 2" and 2-1/2".

**SLEEVE COUPLINGS**

- **038R Steel Sleeve** couplings for pipe 1" thru 12".
- **040G Fiberglass Sleeve** couplings for pipe 2" thru 8".
- **038C Plastic Coated Steel Sleeve** couplings for pipe 1" thru 12".
- **040R Steel Sleeve** couplings for pipe 1" thru 12".

SBC Sleeve Couplings provide positive seal, correct misalignment and absorb vibration. Nitrile gaskets and Track head bolts with rolled threads are standard.

**CROWN WOBBLERS**

- **Fig. 24** With Pumping Tee Base Height above Nipple 5 1/4" Height above tubing 9 3/4"

SBC Woobblers can be used with any make stuffing box, and are designed to allow for misalignment of the pumping unit from the well head to give flexibility on short out-of-line horse head. Working pressure, 1500 P.S.I. Furnished with female connections, please specify size and thread required for both the top and the bottom connections.

**LUBRICATED PLUG VALVES**

- **Threaded**
- **Grooved**
- **Flanged**

SBC lubricated valves are cast of high tensile strength gray iron and are suitable for oil, gas, and water installations. They are not recommended for temperatures above 200°F or 93°C. 175# working pressure.

**POLISHED ROD OILER / POLISHED ROD CLAMPS**

- **Fig. PRC-26**
- **Fig. PRC-40**
- **Fig. PRC-105**
- **Fig. PRC-100**
- **Fig. PRC-107**

The Skinner Polished Rod Oiler is a simple, low cost clamshell type devise that bolts to the top of the stuffing box. The interior of the oiler is fitted with a wicking material that quickly becomes saturated with well and reservoir fluids during the pumping process. It is through this saturated wick that the polished rod passes, receiving a continuous film of lubrications that prevents binding and scoring while drastically reducing wear on the packing of the stuffing box.

The Skinner Oiler fits all standard stuffing boxes. The interior lube-wick is sized to fit the polished rod being used (1"-1 3/4"). Following extended use, it is a simple matter to replace the wick in the field.

All Skinner Clamps are forged from high-grade, heat treated steel. Bolts are cadmium plated, heat treated steel. Washers are through-hardened and cadmium plated. Hinge pins are 4140 heat treated steel.

The clamping surface of each Skinner clamp is bored and reamed to the exact size of the polished rod. Additionally, both ends are machine-squared with the hole to prevent eccentric loading if the hanger bar is flat. The Skinner clamp exerts a 2:1 mechanical advantage in the ratio of distance from the center of the rod to the center of the bolt and from the center of the rod to the center of the pin. Contact areas are spaced to give maximum clamping effect.
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