



**WESTERN
OILFIELD
SPECIALTIES CORP.**

QUALITY OILWELL PRODUCTION EQUIPMENT



Weatherford FPP (Fluid Packed Pump) bottom hole reciprocating pumps and accessories.

Skinner Brothers stuffing boxes, BOP's, flow tees and pipe and polished rod clamps.

Hasco Mfg. polished rods, liners, pressure-actuated plungers and coated strainers.

PCC Pollution Control Corp for pollution control and containment products.

DCI Shock Absorber and No-Tap Tool for well optimization.

Odessa Separator Inc. down hole sand screens.

Browning Oil Tools Automatic Latch On-Off Tools.

Darcova Seating Cups, Rings & Packing.

Western Oilfield Specialties Corp.
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WESTERN OILFIELD SPECIALTIES CORP.

Hasco Manufacturing Company.

Hasco Polished Rods are manufactured in accordance with the latest edition of API specification 11B. Hasco has the largest variety of materials from piston steel (C 1045) to High Power N50 and MegaBar, available to deal with any well condition. Rod & pin sizes are color-coded for ease of identification and a new innovation called "Twin Pin" features a different size API thread on each end. This is an added convenience to our customer at no additional cost.



Hasco Pressure Actuated Plungers and **Hasco-Loy Hard Faced Plungers** are superior in quality and last longer because of a harder and tougher wear surface. Hasco rings expand on the upstroke and relax on the down stroke allowing faster fluid movement past the plunger to flush out sand and debris while reducing friction. Available in varying sizes with 20, 40, 60 or 80 rings and a selection of ring materials to deal with any well condition.



Hasco Perforated Strainer Nipples should be used on the bottom of all insert pumps. These nipples have a sufficient number of holes to permit free passage of fluid on the suction stroke. All holes are drilled and free of burrs and available in solid brass or steel with corrosion resistant plating.



Skinner Brothers Company:

SBC Fig 102 Blow Out Preventer. 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 polished rod. Available in tubing sizes of 2", 2-1/2" and 3" to accommodate 5/8" through 1-3/4" polished rods. Male and female connections. Test pressure, 3000 PSI.



SBC Dual Pack Stuffing Box. 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 for 1" to 1-3/4" polished rods. Upper and lower glands are self-aligning and an upper cone polishing ring standard. Working pressure 1500 PSI.

SBC Polished Rod Clamps come in 1, 2 and 3 bolt configurations for loads up to 40,000 lbs for use on 1-1/8" to 1-1/2" polished rods.

DCI

SHOCK ABSORBER

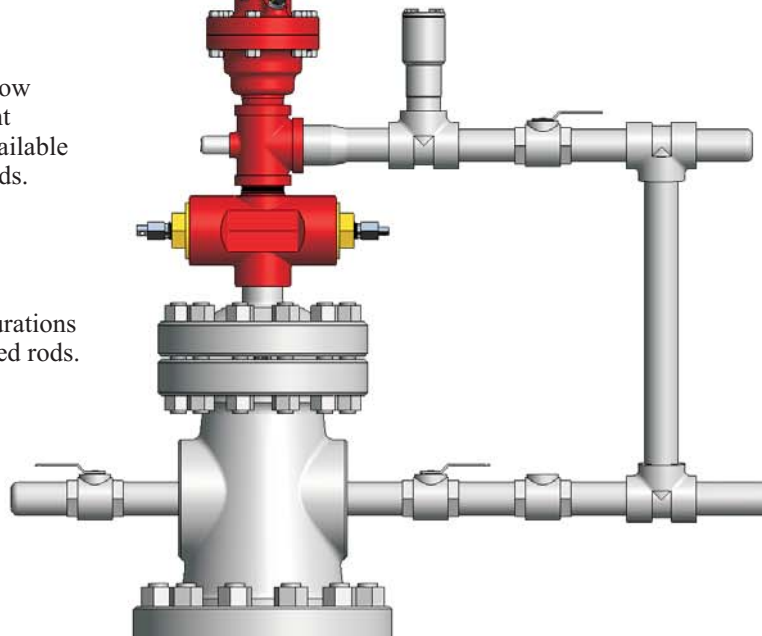
DCI Shock Absorber is a practical well optimization tool to cushion the pumping unit from the rod string. Simple installation on the carrier bar and minimal maintenance

are benefits of using this tool to reduce rod and gearbox loading and provide optimal performance of your rod lift system. Available for 1-1/8" to 1-3/4" polished rods and 10,000lb to 50,000lb loads.

The **No Tap Tool** enables you to pump oil wells with a high gas cut as the tool unseats the traveling valve at the start of the down stroke every stroke preventing a gas lock situation. The patented design of The No Tap Tool allows the plunger of the pump to rotate or take the path of least resistance on every stroke reducing plunger wear.



Quality Oilwell Production Equipment



Browning Oil Tools, Inc.



Browning Oil Tools Automatic Latch On and Off Tool is used primarily with pump plungers of larger diameter than the tubing string. To latch on it is only necessary to lower the rods, the tool is self-aligning and the weight of the rod string automatically locks the tool. To unlatch simply lower your rods and turn to the right. Available in steel or stainless steel and a variety of SR pins and body sizes from slim hole to extra heavy duty.

Weatherford Fluid Packed Pumps (FPP) Sucker rod pumps and rod couplings. Quality API rod pumps and parts for all pumping wells in a wide range of sizes and materials.

Weatherford provides an extensive selection of specialty items and accessories to enhance pump performance. API Sucker rod, Polished rod and changeover couplings are available in API Grade "T" and "SM", full size or slim hole from 5/8" to 1-1/8" threads.

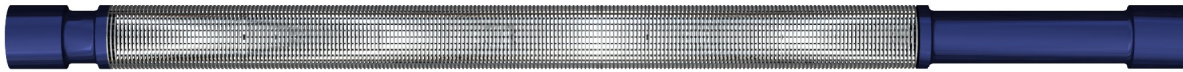


Sucker Rod Coupling



Odessa Separator Inc.

Odessa Separator's TUBING SCREENS are made up of a screen jacket that is slipped over a piece of perforated J-55 tubing. This tubing screen is designed specifically for wells with a high lifting cost associated with **Sand Failures**. Available with 0.012" to 0.050" slot openings in 8ft or 24ft lengths.



Odessa Separator's new SUPER PERF is a 4ft version of the tubing screen with a 0.075" slot screen designed to replace the traditional perforated pup joint. The SUPER PERF has 27 times the open area of conventional perforated pup joints. With the 75 slot screen jacket we allow for not only greater gas separation but greater overall filtration to improve run time.



Odessa Separator's PUMP GUARD screens protect your pump from damaging abrasives and maintain adequate open area to admit the most fluid possible without plugging. Available in 1" and 1-1/4" OD from 2ft to 8ft lengths.



PCC Pollution Control Corp:

PCC 302 Load Line Container:



Eliminates expensive cleanup at loading and unloading areas.
 -Quality UV resistant polyethylene construction.
 -2 gallon to 30 gallon capacities available.
 -Sidewinder automatically empties unit while truck is loading product.

Trapper & Trapper Topper:

Leak Control for the Stuffing Box
 -Controls leaks on pump jack stuffing boxes and drains into a container.
 -Easy installation with hinged flange and quick connecting boomer clamps.



Insert Anchor

RWAC Pump



Handy Formulas:

Produced BFPD = Pump Factor x SPM x Plunger Stroke @100% Efficiency

Bore Factors: 1-1/4" = .182 1-1/2" = .262 1-3/4" = .357 2" = .466
 2-1/4" = .590 2-1/2" = .728 2-3/4" = .881 3-1/4" = 1.231

Metric Conversions: 1 bbl = 42 US gal = .15899 m³ 1 m³ = 6.2897 Barrels
 1 metre = 3.28 ft 1 ft = .3048 metres
 1 kilogram = 2.2046 lbs 1 lb = .45359 kilograms
 1 kPpa = .14503 psi 1 psi = 6.895 kPpa



Sucker Rod Coupling Data:

Coupling Size	Rod Size	Box Size	Outside Diameter		Coupling Length
			Full Size	Slim Hole	
5/8"	5/8	15/16"	1-1/2"	1-1/4"	4"
3/4"	3/4"	1-1/16"	1-5/8"	1-1/2"	4"
7/8"	7/8"	1-3/16"	1-13/16"	1-5/8"	4"
1"	1"	1-3/8"	2-3/16"	2"	4"
1-1/8"	1-1/8"	1-9/16"	2-3/8"	2-3/16"	4-1/2"

Tubing Data:

Nominal Size	OD	Drift	Capacity Bbl/1000 ft	Maximum Rod Size Std.---Coupling---Slim	
1-1/2"	1.900"	1.516"	2.24	---	5/8
1-3/4"	2-1/16"	1.657"	2.67	5/8	3/4
2"	2-3/8"	1.901"	3.88	3/4	7/8
2-1/2"	2-7/8"	2.347"	5.80	7/8	1
3"	3-1/2"	2.867"	8.78	1-1/8	---

Sucker Rod Data:

Rod Size	Dry Wt Pounds/1000'	Area (In ²)	Pin Size	Max Recommended Load*, lb.			
				API Gr K	C	D	S-88
5/8	1,140	0.307	15/16"	14,700	14,700	20,500	31,900
3/4	1,620	0.442	1-1/16"	21,200	21,200	30,000	45,900
7/8	2,155	0.601	1-3/16"	28,800	28,800	40,800	62,500
1	2,900	0.785	1-3/8"	37,600	37,600	53,300	81,600
1-1/8	3,672	0.994	1-9/16"	47,500	47,500	67,000	100,000

(* Based on 80% Yield Strength)

Seating Nipples:

Tubing Size	Seal Bore +.010"/-.000"		
	Type	Length	Seal Bore
1-1/2"	API -3 Cup	9	1.460"
1-3/4"	API -3 Cup	9	1.535"
2"	API -3 Cup	12	1.780"
2"	API -2 Cup TP	9	1.710"
2-1/2"	API -3 Cup	12	2.280"
2-1/2"	API -2 Cup TP	10	2.210"
3"	API -3 Cup	12	2.780"
3"	API -2 Cup TP	10	2.710"

Note: call for information on - Pacific, Otis, Baker or Camco nipples



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