



**WESTERN
OILFIELD
SPECIALTIES CORP.**

"Sales, Service and Reliability 24 hours a day – everyday"

7108 - 56 Avenue NW Edmonton, AB T6B 1E4 Toll Free 1-877-437-7733

www.wos.ca

**QUALITY
OILWELL
PRODUCTION
EQUIPMENT**



PRL Mfg.

Polished Rods, Polished Rod Liners,
Pressure-actuated Plungers, Spray Metal Plungers
and Strainer Nipples

PCC Pollution Control Corp

Pollution Control and Containment Products

API

Bottom Hole Reciprocating Pumps and Accessories

DCI

Shock Absorber and No-Tap Tool for Well Optimization

Darcova

Seating Cups, Cone Packing and Plunger Rings

Browning Oil Tools

Automatic Latch On-Off Tools

Odessa Separator Inc.

Downhole Tubing Screens, Gas Separators and Fluid Conditioning Systems

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PRL Polished Rods are API manufactured in accordance with the latest edition of API specification 11B. PRL has the largest variety of materials from piston steel (C 1045) to High Strength N50, available to deal with your toughest well conditions. Rod & pin sizes are color-coded for ease of identification.



PRL Pressure Actuated Plungers and Spray Metal Plungers are superior in quality and last longer because of a harder and tougher

wear surface. PA 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



PRL 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 brass or steel material.



Darcova Tef-Core XT

Cone Packing uses a Fluoropolymer wear ring molded into their specially compounded rubber cone. It provides

high temp performance and excellent abrasion resistance while reducing friction and increasing run times.



Darcova offers Nylon, XT, and XTC PA plunger rings for superior results in all well conditions.

The XT resin is a high performance fluoropolymer that is inert to most solvents and chemicals. They also have high impact strength, abrasion resistance and service temperature resistance. The XTC material provides superior abrasion resistance with an upper temperature rating of 260°C (500°F).



Trapper F8 PLUS & F8 MAX:
Leak Control for the Stuffing Box

- Faster and easier to install
- Kill switch and drain valve configuration for container is available
- Adapters available for dozens of stuffing box designs
- PCC Trapper bundles include a remote grease hose assembly



DCI

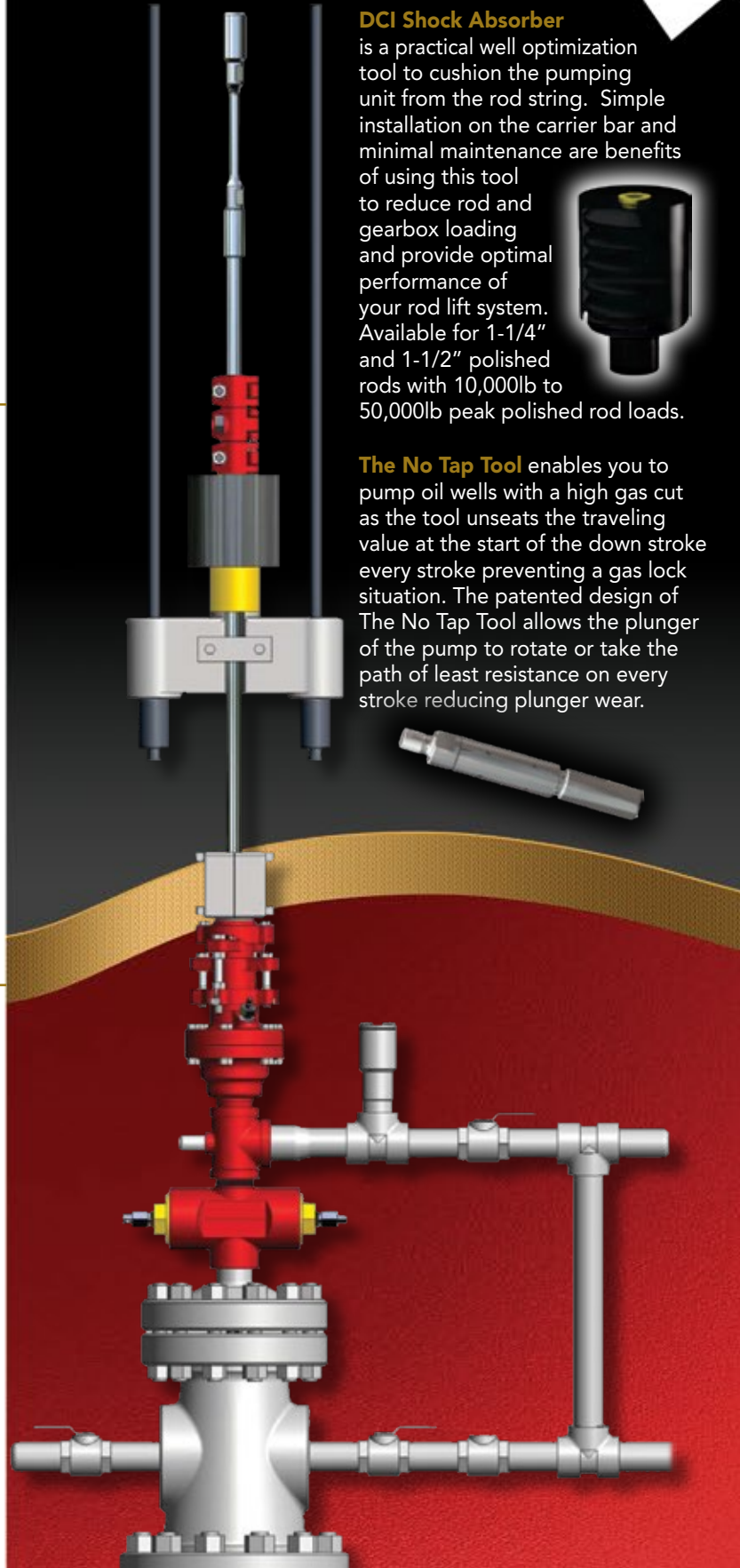
SHOCK ABSORBER

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 1-1/4" and 1-1/2" polished rods with 10,000lb to 50,000lb peak polished rod 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.





RWAC
Insert Pump

Sucker Rod Pumps and Sucker Rod Couplings. Quality API sucker rod pumps and parts for all pumping wells in a wide range of sizes and materials. Western Oilfield Specialties 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

**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 with a variety of SR pins and body sizes from slim hole to extra heavy duty. Left hand release tools are also available.



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 0.008" to 0.075" slot openings in 8ft or 24ft lengths.



Odessa Separator's 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.

The Vortex Desander is designed specifically for wells with high lifting cost associated with sand failures. The fluid flows down through the Helix and creates a vortex effect that separates solids through centrifugal force allowing clean fluid to flow up the dip tube. The Vortex Desander consists of two distinct stages. The first stage utilizes either OSI's Tubing Screen, Super Perf or Perf Sub. The advantage of using these different tools for the intake are; filtration of larger more abrasive solids (>250 microns - <6520 microns) using the appropriate slot sizes on the first stage. The second stage is the vortex created by the centrifugal force, which then separates the less abrasive solids (<250 Microns) and deposits them in the tail pipe (mud joint).

- Two filtration stages
- Fine solids filtration (<210 microns)
- Extends equipment run life



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 FS---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
				(*Based on 80% Yield Strength)			
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

Seating Nipples Seal Bore +.010"/-.000"

Tubing Siz	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"



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