



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

地址: 山东省济南市历下区经十路 12111 号中润世纪中心
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抽油泵产品系

Sucker Rod Pump Products

Subsurface Sucker Rod Pumps



Tubing Pumps

The tubing pumps can be sunk into wells in sequence as follows: barrel is run down to the setting depth on the tubing and then plunger with the standing valve on the rod string. For tubing of same diameter, tubing pumps are always of larger capacity than insert pumps. The tubing pump is simple in structure and applicable for wells not too deep and of higher production rate.



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抽油泵产品系

Sucker Rod Pump Products

Tubing pumps are classified as THD pumps and THC or THM pumps. The standing valve of THC or THM pump can be hold and sealed by a mechanical or cup hold-down. Plunger together

Model	Nominal Dia. mm(in)	Plunger Length m(ft)	Stroke m	Pump Constant m ³ /d	Tubing and Thread	Sucker Rod in
20-125TH	32(1.25)	1.2-1.8(4-6)	0.6-7.3	1.14	2 3/8 NU/EU	3/4
25-125TH	32(1.25)		0.6-7.3	1.14	2 7/8 NU/EU	3/4
20-150TH	38(1.50)		0.6-7.3	1.64	2 3/8 NU/EU	3/4
25-150TH	38(1.50)		0.6-7.3	1.64	2 7/8 NU/EU	3/4
20-175TH	44(1.75)		0.6-7.3	2.24	2 3/8 NU/EU	3/4
25-175TH	44(1.75)		0.6-7.3	2.24	2 7/8 NU/EU	3/4
25-200TH	50(2.00)		0.6-7.3	2.92	2 7/8 NU/EU	3/4
25-225TH	57(2.25)		0.6-7.3	3.69	2 7/8 NU/EU	3/4
30-250TH	63(2.50)		0.6-7.3	4.56	3 1/2 NU/EU	7/8
30-275TH	70(2.75)		0.6-7.3	5.50	3 1/2 NU/EU	7/8
30-325TH	83(3.25)		0.6-7.3	7.70	4 NU/EU	7/8
40-375TH	95(3.75)		0.6-7.3	10.26	4 1/2 NU/EU	1

with standing valve can be lifted out integrally for normal pump check, with the tubing remain intact. This makes the tubing pumps suitable for wells usually with short pump check intervals.

Specifications for Tubing Pumps

Insert Pumps



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抽油泵产品系

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The insert pump can be connected to sucker rod on the surface and then lowered into the wells integrally through the tubing. Pump checks are easy and without the need of pulling and running the tubing. This makes it especially suitable for deep well applications. Reduced running time and make-and-breaks can surely enhance tubing working life. Insert pumps are clarified as mechanical and cup hold-down pumps by hold-down types or as top hold-down, bottom hold-down and traveling barrel insert pumps by hold-down positions.

Model	Nominal Dia. mm(in)	Plunger Length m(ft)	Stroke m	Pump Constant m ³ /d	Tubing and Thread	Sucker Rod in
25-112RHAC/M	28(1.12)			0.92	2 7/8 NU/EU	3/4
20-125RHAC/M	32(1.25)	1.2-1.8 (4-6)	≤7.5	1.14	2 3/8	3/4
25-150RHAC/M	38(1.50)			1.64	2 7/8	3/4
25-175RHAC/M	44(1.75)			2.24	2 7/8	3/4
30-225RHAC/M	57(2.25)			3.69	3 1/2	3/4
20-125RHBC/M	32(1.25)			1.14	2 3/8	3/4
25-150RHBC/M	38(1.50)			1.64	2 7/8	3/4
25-175RHBC/M	44(1.75)			2.24	2 7/8	3/4
30-225RHBC/M	57(2.25)			3.69	3 1/2	3/4
20-125RHTC/M	32(1.25)			1.14	2 3/8	3/4
25-150RHTC/M	38(1.50)			1.64	2 7/8	3/4
25-175RHTC/M	44(1.75)			2.24	2 7/8	3/4
30-225RHTC/M	57(2.25)			3.69	3 1/2	3/4

Specifications for Insert Pumps

Specialty Sucker Rod Pumps



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Specialty sucker rod pumps are applicable for sand, live or high viscous wells, slant wells, or for use in zonal production or casingless production. They have been used in many oilfields with good efficiency.

Various types of specialty pumps and accessories as follows can be designed and made for actual applications and upon client's request:

- 1. Plungers electroplated in deep well and then forcefully honed on machines, with electroplated length up to 9m for plungers and longer than 10m for rods and barrel items;*
- 2. Optional stainless-steel plungers, electroplated plungers or Ni-P coated plungers by spray welding processes;*
- 3. High precision valve balls and seats in various materials such as stainless steel, ceramic and carbide.*





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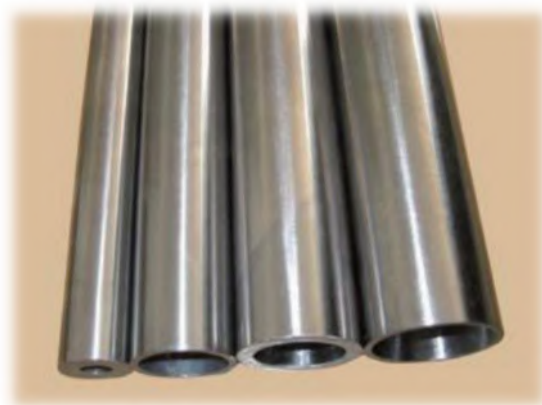
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抽油泵产品系

Sucker Rod Pump Products

Precision cold rolled pipe



1. Pump Barrel for Sucker Rod Pump:

Specification: $\Phi 32$ 、 $\Phi 38$ 、 $\Phi 44$ 、 $\Phi 57$ 、 $\Phi 70$ 、 $\Phi 83$ 、 $\Phi 95$ 、 $\Phi 108$ 、 $\Phi 120$ 、 $\Phi 140$ and non-certificated models.

2. Pump Plunger for Sucker Rod Pump

Specification: $\Phi 32$ 、 $\Phi 38$ 、 $\Phi 44$ 、 $\Phi 57$ 、 $\Phi 70$ 、 $\Phi 83$ 、 $\Phi 95$ 、 $\Phi 108$ and non-certificated models.



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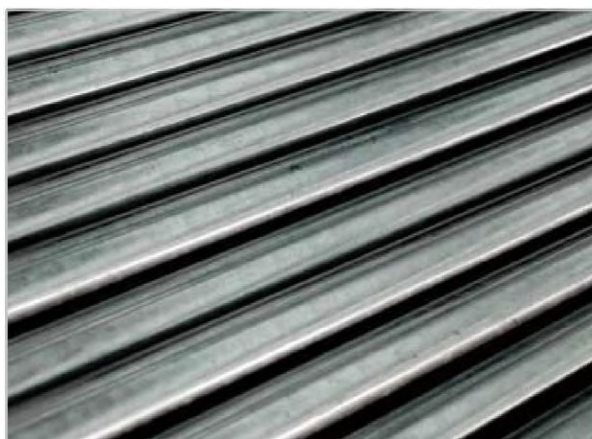
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抽油泵产品系

Sucker Rod Pump Products

Barrel specification	Nominal Dia.mm(in)	I.D. Tolerance (mm)	Wall thickness	Material	Plunger specification	O.D. Tolerance (mm)	Length
Φ32	31.75mm/1 1/4"	±0.05	1.5mm/	Carbon Steel	Φ32	±0.05	1.2m-1.8m 4'-6'
Φ38	38.10mm/1 1/2"	±0.05	3/50"		Φ38	±0.05	
Φ44	44.45mm/1 3/4"	±0.05			Φ44	±0.05	
Φ50	50.8mm/2"	±0.05	3.18mm/	Pipe	Φ50	±0.05	
Φ57	57.15mm/2 1/4"	±0.05	1/8"	Brass	Φ57	±0.05	
Φ70	69.85mm/2 3/4"	±0.10	6.35mm/	Pipe	Φ70	±0.10	
Φ83	82.55mm/3 1/4"	±0.10	1/4"	Alloy	Φ83	±0.10	
Φ95	95.25mm/3 3/4"	±0.10		Steel Pipe	Φ95	±0.10	
Φ108	107.95mm/4 1/4"	±0.10	9.53mm/		Φ108	±0.10	
Φ220	219.75mm	±0.10	3/8"		Φ220	±0.10	

Pump housing for Electric Submersible Pump (ESP)





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抽油泵产品系

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Specification	Nominal Dia.	Tolerance	Wall Thickness	Material
Φ139	139.7mm/ 5 1/2"	±0.05mm	3.18mm/ 1/8"	Alloy steel pipe



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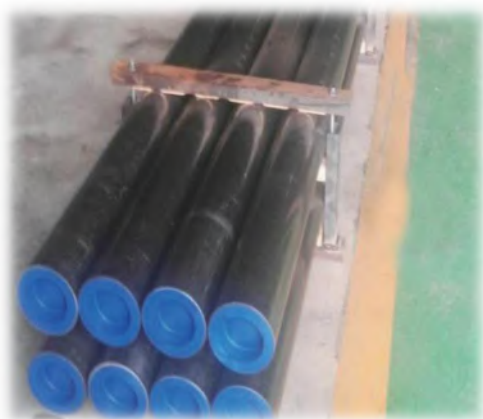
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抽油泵产品系

Sucker Rod Pump Products

Φ178	177.8mm/7"	±0.05mm	6 25mm / 1 1/4"	
Φ210	209.55mm/8-1/2"	±0.05mm	9 53mm / 3 7/8"	



Pump Parts and Accessories



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抽油泵产品系

Sucker Rod Pump Products

Metal-spray Plunger

Complete line of spray metal plungers with the hardest most corrosion resistant metals available. Each plunger and/or plunger component must meet corresponding metallurgical and precision standards, as well as the dimensional standards of API 11AX latest edition.



Specification: 1.1" ($\phi 28\text{mm}$) – 6.3" ($\phi 160\text{mm}$)

Regular Plunger Length: 1ft–6ft (Can be customized)



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抽油泵产品系

Sucker Rod Pump Products

The metal spray plunger Using oxygen, acetylene spray welding technology, spray the nickel base alloy powder to pass through the surface of the coarsening and activation of matrix, and then heated to the temperature range of solid liquid phase line to melt and tile alloy materials and get the modified surface welding layer, thus transforming the anti-wear & corrosion performance of the workpiece. The spray metal thickness can be subject to the working condition of the actual requirements, the minimum thickness 0.203mm, welding layer and base metal metallurgy brazing, the bonding strength can be up to 200 ~ 300 Mpa. The Nickel base alloy powder and base has good bonding strength, better shock resistance, higher hardness, wear & corrosion resistance, anti-oxidation can be up to 650 °C, which can make good friction pair with pump barrel.

Nitriding Plunger

Nitriding is a heat-treating process that diffuses nitrogen into the surface of a metal to create a case-hardened





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抽油泵产品系

Sucker Rod Pump Products

surface. Nitriding Plunger applies gas nitriding surface hardening process, where nitrogen is added to the surface of plunger using dissociated ammonia as the source. The nitriding plunger increases wear resistance, surface hardness, fatigue limit and corrosion resistance.

Equal Diameter Plunger



Structure:

Equal diameter plunger is composed of upper and lower equal diameter connector, plunger and traveling valve cage.

Features:

1. Sand control, sand control grinding, effectively extend the production cycle of oil Wells
2. Low price, high efficiency.

Technical Specification



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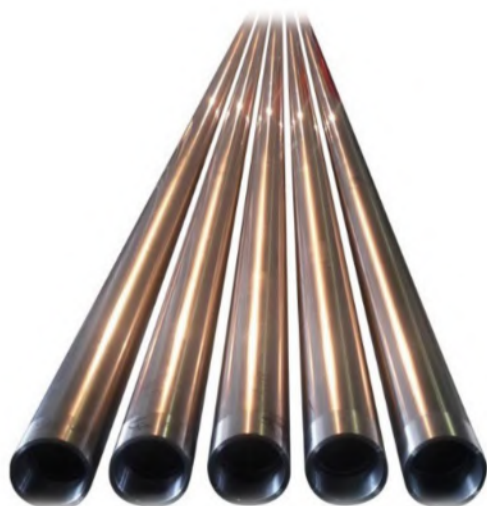
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抽油泵产品系

Sucker Rod Pump Products

Size (mm)	Plunger Length (mm)
1-1/4" ($\phi 32$)	600/ 900/1200 /1500 /4500
1-1/2" ($\phi 38$)	
1-3/4" ($\phi 44$)	
2-1/4" ($\phi 57$)	
2-3/4" ($\phi 70$)	
3.27" ($\phi 83$)	
3-3/4" ($\phi 95$)	

Metal Spray Long Plunger



The long plunger sand pump with short pump barrel, Long plunger, sinking sand and lateral inlet structure is a more widely used sand control



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抽油泵产品系

Sucker Rod Pump Products

pump, through up and down strokes of plunger, the liquid will flow to the ground through duplex connector and double-stage standing valve, at the same time, part of sand that doesn't carrying up in the tubing string will sink into the grit tail pipe through the annulus between pump barrel and grit tube as well as duplex connector.

Type:

- 1. Long plunger connected by a 1.2m or 1.5m long short plunger*
- 2. Integral long plunger with metal spray, straightening and whole grinding*

Features:

- 1. The outer surface is adopted metal spray technology, which can ensure that the plunger has the characteristics of corrosion resistance, wear resistance and size stability for a long time.*
- 2. The long plunger with high precision size, good straightness and concentricity, small flow resistance coefficient and smooth surface, is not easy to scale and stuck pump.*



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抽油泵产品系

Sucker Rod Pump Products

Technical Specifications

Size (mm)	Plunger Length
1.1'' ($\phi 28$)	2.4m~12m
1-1/4'' ($\phi 32$)	
1-1/2'' ($\phi 38$)	
1-3/4'' ($\phi 44$)	
2-1/4'' ($\phi 57$)	
2-3/4'' ($\phi 70$)	
3.27'' ($\phi 83$)	
3-3/4'' ($\phi 95$)	

Chrome-plated Pump Barrel

The chrome internally plated barrel is fabricated from carefully selected carbon steel material and has a uniform thickness of chrome plating is added on the I.D., offering resistance to abrasive sands and foreign materials. It has exacting tolerances conforming to API dimensions.



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抽油泵产品系

Sucker Rod Pump Products



Chrome-plating Barrel Feature:

- 1. Uniform plating, high bonding strength, accurate dimensional precision*
- 2. The inner bore hardness up to HV₉₀₀₋₁₁₆₀, small friction coefficient and good wear*



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抽油泵产品系

Sucker Rod Pump Products

resistance, can be used for sand and other friction medium oil Wells

3. Good chemical stability, no action in alkali, sulfide, nitric acid and most organic acids,
and excellent corrosion resistance

Technical Specifications:

Size in(mm)	Length
1.1" (φ28)	1.2~10.9m 4'~36'
1-1/4" (φ32)	
1-1/2" (φ38)	
1-3/4" (φ44)	
2-1/4" (φ57)	
2-3/4" (φ70)	
3.27" (φ83)	
3-3/4" (φ95)	
4-3/4" (φ120)	
5-1/2" (φ140)	



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Sucker Rod Pump Products

6.3" ($\phi 160$)	
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Subsurface Pump Cage

The subsurface pump cages have been designed to give maximum flow capability. The cage crown has been scientifically designed to provide the correct ball lift and provide the correct side clearance to ensure free and unobstructed fluid flow through the valve.

A variety of materials: Carbon steel 1045, Alloy-steel 4130(30CrMo), 4135(35CrMo), 5140(40Cr) Stainless Steel 304, 316L, Monel 400, etc. are offered to tailor the cage to meet specific well requirements and API 11AX Standard Latest Edition.





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Sucker Rod Pump Products

Other Pump Fittings and Accessories





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