

RWT API Insert Pumps

RWTC and RWTM standard sucker rod pumps

APPLICATIONS

- Sandy wells
- High scale wells
- Shallow pumping depths

BENEFITS

- Resistant to becoming stuck
- Particulates cannot fall inside pump on well shutdown

FEATURES

- Open-top cage
- Traveling barrel assembly
- Universally accepted design

Recommended for shallow operating depths, Don-Nan RWT API insert pumps are thin-walled, traveling barrel, bottom hold-down pumps recognized by API as a standard design. Unlike other insert pumps, the plunger assembly is attached to the hold-down where it becomes stationary, whereas the barrel assembly is the traveling portion that moves with the sucker rod string.

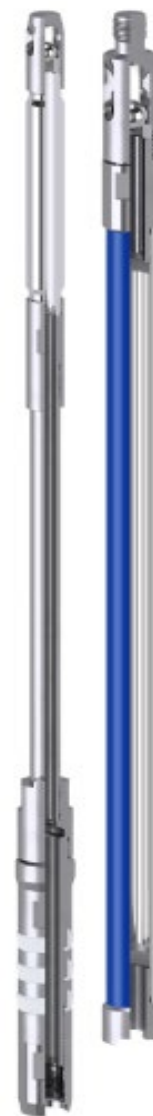
Because the barrel assembly moves, sand and scale can accumulate around the hold-down without sticking the pump; upon restarting operation, all settled material will be dispersed in the fluid. The exit point for fluid is through an open three-wing cage, which prevents any solid material from reentering the pump on well shutdown and lengthens the run life of internal components.

The seating options on this pump include mechanical or cup types suitable for high temperatures, and mechanical types for simplified well maintenance. A mechanical hold-down does not require repair unless major damage has occurred, whereas cups should be replaced every time the pump is unset. Both hold-down types follow the same procedure of setting and unsetting by placing the weight of the sucker rods down on the pump or lifting up.

This highly specialized pump can be further optimized by selecting the metallurgy and coating of various components to maximize pump life in specific well conditions; options include brass, nickel, and carbide barrels and MONEL® fittings.

Enhance operational flexibility and extend the life of your rod lift system

Don-Nan offers a range of tools and specialty products engineered to address common problems such as rodstring wear and damage due to gas interference, erosion, or insufficient fluid levels. These products provide greater flexibility during operations and can extend the life of the rod lift system.



RWTC API
Insert Pump

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PumpTrak™ system

- Continuously improve operations with the PumpTrak.
- web-based pump service tracking system, which serves as a repository of detailed service information including service history, installation and pull date, days in use, and failure and cost analysis.
- Track why and how a failure occurred with insights into well properties and actively address its existing challenges by replacing the pump with a fit-for-purpose solution.
- Easily export reports to Excel®, view high-resolution photographs and cost information in real time, review supply and tubing anchor tickets, and download dynamometer and fluid level reports.

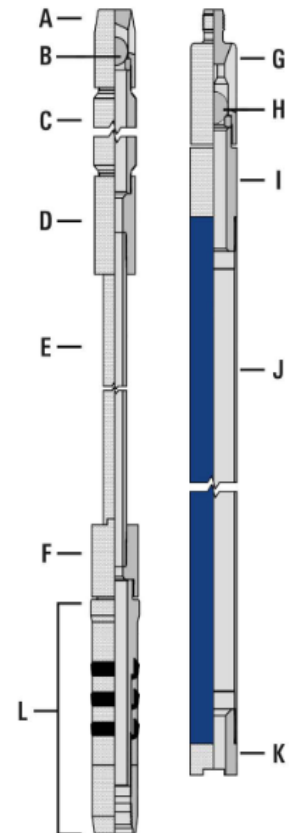
Traveling Thin-Wall Barrel, Bottom-Ancor, Cup-Type Hold-Down

Description	Item	Req.	Tubing x Pump Bore Size, in				
			1 ⁹ / ₁₀ x 1 ¹ / ₄	2 ³ / ₈ x 1 ¹ / ₄	2 ³ / ₈ x 1 ¹ / ₂	2 ⁷ / ₈ x 2	3 ¹ / ₂ x 2 ¹ / ₂
Stationary Assembly							
Cage, top open	A		CF25	CF25	CF35	CF55	CF75
Valve, ball and seat	B		043 + 02	043 + 02	045 + 03	048 + 05	051 + 07
Plunger	C		P214-3	P214-3	P314-3	P614-3	P814-3
Coupling, upper pull tube	D	1	CT021	CT121	CT222	CT424	CT824
Tube, pull	E		PT0-135	PT1-135	PT2-134	PT3-134	PT4-132
Coupling, lower pull tube	F		CT035	CT135	CT235	CT436	CT436
Traveling Assembly							
Cage, top open	G		CF340-0	CF440-1	CF440-1	CF640-1	CF840-1
Valve, ball and seat	H		045 + 03	047 + 04	047 + 04	049 + 06	051 + 07
Connector, upper barrel	I	1	C101	C201	C222	C332	C443
Barrel, thin wall	J		BT0316C	BT0316C	BT0516C	BT1216C	BT1616C
Plug, pull	K		PP00	PP11	PP22	PP33	PP44
Seating Assembly							
API, 3-cup*	L	1	HM31	HM41	HM41	HM51	HM61

Barrel, barrel extensions, plunger, and valve rod must all be specified in length.

All components may be specified by material and coating type.

*API mechanical type seating assembly also available.



BUILT TO LAST

Made to Perform

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LUFKIN Don-Nan is an API 11AX certified manufacturer for 25 continuous years and counting.

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lufkin.com/donnan