

WELL SERVICE



NATIONAL PREMIUM OILWELL

Worldwide Oilfield Products and Equipment



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Premium Rig Parts Well Service Line Sheet

Well Service Expendables

- Valve Assembly
- Valve Seat
- Valve Spring
- Fluid End Spares
- Plunger Packing
- Plungers

Centrifugal Pumps and Parts

- Mission Magnum I
- Mission Sandmaster
- Mission Magnum XP

Brands

- Weir SPM
- SJ Serva
- Halliburton
- Gardner Denver
- National Mission
- Dragon
- Baker Hughes
- Shanghai Qinghe
-

Type/Models

- SPM TWS600S
- SPM TWS2250
- SPM QWS2500
- HT400
- GD HD2250
- SPM TWS2500
- SPM QWS 2800
- TPA2250
- SJS-TP600s
- TSC MF2250
- QPA2500
-



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Well Service Valves and Seats

Made in USA & Made in China

We manufacture replacement valve inserts and bonded valve inserts for all applications. Humble Industries uses the latest urethane compounds available for standard service and Hi-Temp applications.

All the valves and seats are interchangeable to Novatech, NOV Mission, Dragon, Weir SPM, Halliburton, Serva, Gardner Denver, TSC.

Features and Benefits:

- Cast N Place Valve Insert
- Increased resistance to abrasion and extrusion
- Operating pressure ratings up to 15,000 PSI

Valve (wing)		Size				
		2.75 - 3.00	3.50 - 4.00	4.50 - 5.00	5.50 - 6.00	6.50 - 7.00
Style	Bonded Insert	X	X	X	X	X
	Press Insert	X	X	X	X	X
	Bonded Burst			X		
	Press Burst			X		

*1 available in GD style

Seat		Size				
		2.75 - 3.00	3.50 - 4.00	4.50 - 5.00	5.50 - 6.00	6.50 - 7.00
Style	AWS	X	X	X1	X	
	YWS		X	X2	X	X

*1 available FMC WT2400/FMC WT2700
*2 available in GD style

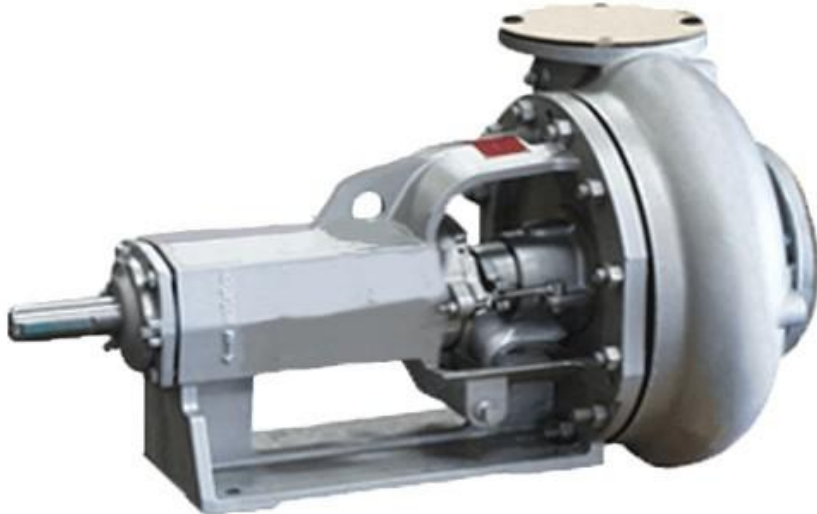


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Centrifugal Pumps and Parts

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Premium Rig Parts supply NOV Mission Fluid King full line products.

Proven to be the best centrifugal pump design for handling abrasive mud, the NOV Mission Fluid King Centrifugal pump line offers a broad selection of innovative features for a variety of routine, demanding, abrasive and corrosive applications.

NOV's Mission Magnum has been the most popular centrifugal pump in the drilling industry since the 1970's because of its proven reliability, durability, and economical structure.

All pumps can be unitized with electric motors, diesel engines, and hydraulic motors (horizontal, vertical, or close coupled configuration).



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Well Service Packing

Premium well service packing is backed by many years of engineering and combined with customers the fastest delivery time in the industry. Whatever abrasive, high pressure, high volume operation you have planned for your wellbore, we have you covered. Premium well service products enhance pumping performance on multiple fronts:

- Delivery
- Expertise
- Reliability
- Engineered Solutions

Together we offer the shortest lead times in the industry making reliable, fast delivery a priority. We ensure that your job proceeds smoothly, efficiently and on schedule. With multiple decades in the sealing business, our technical oilfield experts bring the most advanced materials, technologies and manufacturing processes, knowledge and skill to you, in the office and in the field. We understand your objectives and can help you quickly implement the best solutions. Our objective is zero product-related downtime in the most extreme pressure pumping applications worldwide.

Features and Benefits:

- Operating pressure ratings up to 20,000 PSI
- Multitude of materials to best fit pumping conditions
- Individual, Replacement, and Complete sets available

Premium well service packing products are available in a variety of materials to meet your specific requirements.



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Well Service Plungers



Premium offers high quality plungers for all pump styles and manufacturers. All plungers are engineered and manufactured to precise dimensions with hardened coatings and surface finishes that are necessary for rugged well service applications. We work alongside manufacturing to continuously develop advances in coating technologies that can handle the harsh environments of the fracturing and the well service industry.

Our state-of-the-art flame metal spray process ensures consistency and reliability. Premium plungers are designed for every style of fluid ends ranging in size from 3.75 to 6.5 inches in overall diameter.

Features and Benefits:

- Superior Wear Resistance
- Harder Working Surface - 59-63 Rockwell
- Surface finish below 16 RMS
- Custom sizes and specifications available



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Fluid End Expendables

Premium is an original equipment manufacturer of quality pump expendables for the most common frac pump configurations. Specifically manufactured from the highest quality steel, our expendables get the job done where others fail. Premium manufactures replacement parts for all well servicing pumps and fluid ends on the market today.

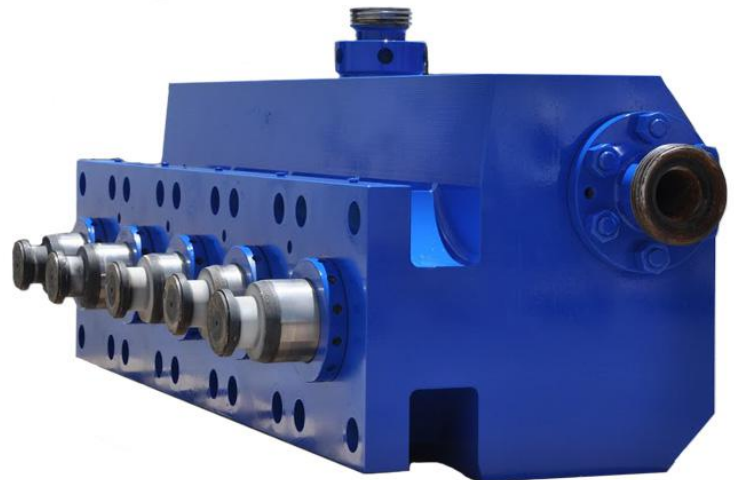


Well Service Fluid Ends

Premium fluid ends are forged using wide-die techniques which assure consolidated centers and fine grain structure, resulting in improved properties throughout. They are 100% ultrasonically tested according to the #A388 ASTM standard.

The chemical composition of our fluid ends has been carefully formulated to enhance performance in all applications. This, in conjunction with special processing steps, creates a high-performance fluid end that is unmatched in the Oil & Gas industry.

We offer carbon alloy and stainless steel material for “Y” style and traditional valve over valve fluid ends.



- Triplex 2250 HP
- Quintuplex 2500 HP
- HT400
- TWS600S



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Cementing and Fracturing



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**“ At PREMIUM, we care about
the products we supply”**

Halliburton HT400 Pump Parts

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Halliburton HT400

Fluid-end/flange discharge section subassembly				
Plunger Size				
	Loc	3-3/8 inch	4-inch	4-1/2 inch
Flange, discharge, HT-400™, BLANK	1		316.22980.	316.22980.
Flange, discharge, HT-400™, CURVED, Right Hand	1a	316.21676.	316.23019.	316.23019.
Flange, discharge, HT-400™, CURVED, Left Hand	1b	316.21677.	316.23017.	316.23017.
Seal, Discharge passage, HT-400™	2	315.27117.	316.2547.	316.2547.
Nut, 1-14NF, Internal Wrenching, 1.03 TL	3	316.11621.	316.11621.	316.11621.
Stud, HT-400™ Fluid End To Thick Discharge Flange	4	316.23013.		316.23013.
Bolt, Tie, 1.375-12 UNF×32.4 in., Top, Fluid End, HT-400™, TC	5	316.27488.	316.27488.	316.27488.
Nut, Top Tie Bolt, HT-400™, TC	6	316.25501.	316.25501.	316.25501.
Washer, Hardened, 2.31 O.D ×1.43 I.D., For Top Tie Bolt,	7	316.22493.	316.22493.	316.22493.
Spacer, Inner, Discharge Passage Seal, HT-400™	8	316.2145.	316.2545.	316.2545.
Fluid End Section, HT-400™ PUMP, Not Sleeved	9	316.21951.	316.22982.	316.23951.
Nut, Elastic, Stop, 3/4-in., 16 NF	10	70.32760.		70.32760.

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Halliburton HT400

Discharge Valve Subassembly						
		Plunger Size				
	Loc	3-3/8 inch	4-inch	4-1/2 inch	5-inch	6-inch
Retainer, Cover, HT-400™	1	316.2102.	316.2202.	316.2202.	316.2502.	316.2502.
Cover, Discharge, Double Guided Valve, HT-400™	2	316.2107.	316.23091.	316.23091.	316.24044	316.24044
Gasket, Discharge Valve & Cylinder Head Cover, HT-400™	3	316.21052.	316.22052.	316.22052.	316.25052	316.25052
Ring, Spacer, Discharge Valve & Cylinder Head Cover, HT-400™	4	316.21051.	316.22051.	316.22051.	316.25051.	316.25051.
Liner, Two Piece Bushing, Valve Guide, HT-400, Brass	5	316.22005.	316.22005.	316.22005.	316.22007.	316.22007.
Insert, Two Piece Bushing, Valve Guide, Special, HT-400	6	316.22004.	316.22004.	316.22004.	316.22006	316.22006
Spring, Valve, HT-400™, 36lb/in	7	316.2108.	316.2108.	316.2308.	316.27259	316.27259
Valve, HT-400, Frac	8	316.21007.	316.21007.	316.22048.	316.24027	316.24027
Insert, Valve, HT-400™, Urethane, Acid/Frac Service(Yellow)	9	316.21048.	316.21048.	316.22046.	316.24026	316.24026
Insert, Valve, HT-400™, Urethane, Standard Service(Brown)	9	316.21006.	316.21006.	316.22049.	316.24037	316.24037
Seat Valve, HT-400™, Tapered	10	316.21008.	316.21008.	316.210047.	316.24024	316.24024
O-ring, 90 Duro	11	8.34037.	8.34037.	8.34041.	8.34045	8.34045
Retainer, Guide Bushing, HT400	12	316.21096	316.21096	316.23953	316.24043	316.24043



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Halliburton HT400

Suction Valve Subassembly						
		Plunger Size				
	Loc	3-3/8 inch	4-inch	4-1/2 inch	5-inch	6-inch
Retainer, Stop and Spring, HT-400™, Mach. Cast	1	316.22977.	316.22977.	316.23034	316.25840.	316.25840.
Boot, Suction and Stop, HT-400™	2	316.25233.	316.25233.	316.25233	316.25233.	316.25233.
Spring, Lock, HT-400	3	316.2125.	316.2125.	316.22252.	316.22253.	316.22253.
Liner, Two Piece Bushing, Valve Guide, HT-400™, Brass	4	316.22005.	316.22005.	316.22005.	316.22007.	316.22007.
Insert, Two Piece Bushing, Valve Guide, Special, HT-400™	5	316.22004.	316.22004.	316.22004.	316.22006.	316.22006.
Spring, Valve, HT-400™, 36lb/in	7	316.2108.	316.2108.	316.2308.	316.27259	316.27259
Valve, HT-400, Frac	8	316.21007.	316.21007.	316.22048.	316.24027	316.24027
Insert, Valve, HT-400™, Urethane, Acid/Frac Service(Yellow)	9	316.21048.	316.21048.	316.22046.	316.24026	316.24026
Insert, Valve, HT-400™, Urethane, Standard Service(Brown)	9	316.21006.	316.21006.	316.22049.	316.24037	316.24037
Seat Valve, HT-400™, Tapered	10	316.21008.	316.21008.	316.210047.	316.24024	316.24024
O-ring, 90 Duro	11	8.34037.	8.34037.	8.34041.	8.34045	8.34045
Retainer, Guide Bushing, HT400	12	316.21096	316.21096	316.23953	316.24043	316.24043

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Halliburton HT400

Plunger/cylinder Head Cover Subassembly						
Plunger Size						
	Loc	3-3/8 in	4-in	4-1/2 in	5-in	6-in
Retainer, Cover HT-400™	1	316.2102.	316.2102	316.2202	316.2502	316.2506
Cover, Cylinder Head, HT-400™	2	316.2107.	316.2107	316.2207	316.2407	316.2507
Gasket, 4 Discharge Valve & Cylinder Head Cover	3	316.21052.	316.21052	316.22052	316.25052	316.25074
Ring, Spacer, Discharge Valve & Cylinder Head Cover	4	316.21051.	316.21051	316.22051	316.25051	316.25073
Nose, Plunger, HT-400™	5	316.2131.	316.2231	316.2331	316.2331	316.2331
Seal, Plunger Nose Assembly, HT-400™	6	316.2130.	316.2230	316.2330	316.2330	316.2330.
Plunger, Hard Surface, L-Spacer, HT-400™	7	316.21026.	316.22294	316.23085	316.24296	316.25162
Tie Rod, Plunger, HT-400™	8	316.21028.	316.21028	316.21028	316.25165	316.25165
Adapter, Pushrod, HT-400™, Two Piece Nose	9	316.21059.	316.22302	316.23089	316.24336	316.25172

Packing Subassembly						
Plunger Size						
	Loc	3-3/8 in	4-in	4-1/2 in	5-in	6-in
Adapter, Header	1	316.21503	316.22503	316.23503	316.24503	316.27503
Ring Header	2	316.21501	316.22501	316.23501	316.24501	316.27501
Packign Set, 4-in.x 5-in, x 1/2-in. Stock, 3 Rings, Hard, Acid Service	3	316.21525	316.22525	316.23525	316.24525	316.27525
Ring, Backup, Packing, 4-in x 5-in.	4	316.21393	316.22393	316.23393	316.24393	316.27393
Carrier, Seal and Packing, 4-in	5	316.21396	316.22396	316.23396	316.24396	316.27396
Seal, Lube, Packing, WQ, 4-in x 4-1/2-in. x 9/16-in	6	316.21395	316.22395	316.23395	316.24395	316.27395
O-Ring, 90D, 5-in. x 4 3/4-in.x 1/8-in	7	8.34040	8.34045	8.34049	8.34053	8.34058
Retainer, Guide Bushing	12	316.21096	316.21096	316.23953	316.24043	316.24043



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