



WELL SERVICE PUMP

石家庄冬利石油机械有限公司

Shijiazhuang Dongli Petroleum Machinery Co., Ltd.



超高压 (Up to 20,000 PSI)

锻造合金工艺 (Forged Alloy Steel)

全套配件供应 (Complete Spares Support)

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NOV JWS-400 WELL SERVICE PUMP



泵类型 (Pump Type)	往复式三缸单作用泵 (Reciprocating Triplex Single)
额定功率 (Rated Power)	400 BHP (298 kW) @ 286 RPM
最大转速 (Max Speed)	286 RPM
冲程长度 (Stroke Length)	7" (177.8 mm)
最大压力 (Max Pressure)	10,000 PSI (68.95 MPa)
柱塞/活塞尺寸 (Plunger/Piston Sizes)	4" - 5.5" (101.6 mm - 139.7 mm)
吸入接口 (Inlet Connection)	6" ASA-150 RF Flange
排出接口 (Discharge Connection)	3-1/16" API-6 BX 10,000 PSI Flange

柱塞与活塞 (Plungers & Pistons)



材质 (Material): 活塞: 锻钢芯体+粘结聚氨酯; 柱塞: 硬化涂层合金钢 (Piston: Bonded Polyurethane; Plunger: Hard Coated Alloy)
特性 (Feature): 活塞采用一体硫化粘接技术, 适用于标准工况; 柱塞可选配 HVOF 碳化钨涂层, 专为高压磨蚀性介质设计, 硬度与耐磨性远超镀铬。(Pistons feature bonded urethane for standard duty; Plungers available with HVOF Tungsten Carbide coating for extreme abrasive resistance.)

吸入阀与排出阀 (Suction & Discharge Valves)



材质 (Material): AISI 8620 合金钢 / 渗碳淬火 (AISI 8620 Alloy Steel / Carburized)
特性 (Feature): 配备先进的笼式阀 (Caged Valve), 笼式结构精确引导阀芯运动, 优化流体通道, 减少湍流与空化, 显著延长阀座寿命。(Advanced Caged Valve design guides the valve element, optimizing flow and reducing cavitation to extend seat life.)

十字头 (Crosshead)



材质 (Material): 高强度球墨铸铁 (High-Strength Ductile Iron)
特性 (Feature): 采用上下导板设计, 配有润滑油槽, 确保润滑油膜均匀分布, 运行平稳, 耐磨性极佳。(Features upper/lower guides with oil grooves to ensure uniform lubrication film, smooth operation, and excellent wear resistance.)

活塞总成 (Piston Assy)	LLU-40-K15	(4" Bonded Urethane Piston)	阀胶皮 (Valve Insert)	1561567	聚氨酯材质 (Polyurethane)
	LLU-44-B15	(4.5" Bonded Urethane Piston)	阀弹簧 (Valve Spring)	G-1560698	吸入阀弹簧 (Suction Spring)
缸套 (Liner)	TS-4701-40HP	(4" Bi-metal Liner)		1717296	排出阀弹簧 (Discharge Spring)
	TS-4701-44HP	(4.5" Bi-metal Liner)	盘根组 (Packing Set)	6422335	适用于 4.5" 柱塞 (For 4.5" Plunger)
吸入阀座 (Suction Seat)	1561561	(Caged/Tapered Seat)	活塞杆 (Piston Rod)	TM-400-A	标准活塞杆 (Standard Piston Rod)
排出阀座 (Disch. Seat)	G-1561569	(Caged/Tapered Seat)	液力端模块 (Module)	1714402	笼式阀液力端缸体 (Fluid Cylinder w/ Caged Valve)

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NOV JWS-340 TRIPLEX WELL SERVICE PUMP



泵类型 (Pump Type)	往复式三缸单作用泵 (Reciprocating Triplex Single)
额定功率 (Rated Power)	340 BHP (253.5 kW) @ 450 RPM
最大转速 (Max Speed)	450 RPM
冲程长度 (Stroke Length)	5" (127 mm)
最大压力 (Max Pressure)	10,000 PSI (69 MPa)
柱塞/活塞尺寸 (Plunger/Piston Sizes)	2.75" - 4.5" (70 mm - 114 mm)
吸入接口 (Inlet Connection)	6" Standard Pipe (6英寸标准管)
排出接口 (Discharge Connection)	2-1/16" API 10,000 RJ Flange

液力端总成 (Fluid End Assembly)



材质 (Material): 锻造合金钢 AISI 4130 / 35CrMo (Forged Alloy Steel 4130/35CrMo)
特性 (Feature): 采用一体式锻造 (Mono-block) 与自增强工艺 (Autofrettage), 消除焊接应力, 显著提升高压抗疲劳寿命。(Mono-block forged design with Autofrettage process eliminates weld stress and maximizes fatigue life under high pressure.)

柱塞与活塞 (Plungers & Pistons)



材质 (Material): 柱塞: 硬化涂层合金钢 / 活塞: 锻钢芯体+粘结聚氨酯 (Plunger: Hard Coated Alloy / Piston: Bonded Polyurethane)
特性 (Feature): 柱塞适用于10,000 PSI高压工况, 表面硬度极高; 活塞采用专有化学粘结技术, 防止高压脱胶。(Plungers designed for 10k PSI with high surface hardness; Pistons feature proprietary bonding to prevent separation.)

Common Wear Parts & Spares List

部件名称 (Part Name)	零件号示例 (Part # Example)	说明 (Description/Notes)
柱塞 (Plunger)	340-010-P	3-1/2" 柱塞, 表面硬化 (3-1/2" Plunger, Hardened)
	340-204-P	4" 柱塞, 表面硬化 (4" Plunger, Hardened)
盘根组 (Packing Set)	G6400038	适用于 3-1/2" 柱塞 (For 3-1/2" Plunger)
	G6400040	适用于 4" 柱塞 (For 4" Plunger)
活塞总成 (Piston Assy)	LLU-40-K10	4" 粘结式聚氨酯活塞 (4" Bonded Urethane Piston)
缸套 (Liner)	TS-0259-40HP	4" 双金属/陶瓷缸套 (4" Bi-metal/Ceramic Liner)
阀总成 (Valve Assy)	1561575	P-4 型, 含阀体与聚氨酯胶皮 (Model P-4, w/ Insert)
吸入阀座 (Suction Seat)	1561571	P-4 型吸入阀座 (Suction Seat, P-4)
排出阀座 (Discharge Seat)	1561572	P-4 型排出阀座 (Discharge Seat, P-4)
阀胶皮 (Valve Insert)	1561577	聚氨酯材质 (Polyurethane)
阀弹簧 (Valve Spring)	1560697	吸入/排出通用 (Common for Suction/Discharge)
液力端模块 (Fluid Module)	171719612	锻钢液力端缸体 (Forged Steel Fluid Cylinder)

吸入阀与排出阀 (Suction & Discharge Valves)



材质 (Material): AISI 8620 合金钢 / 渗碳淬火 (AISI 8620 Alloy Steel / Carburized)
特性 (Feature): 标准配备 P-4 型全开式阀, 渗碳层硬度 HRC 58-65, 配聚氨酯嵌件, 耐冲击且密封可靠。(Standard P-4 Full Open style, Carburized to HRC 58-65 with Polyurethane inserts for impact resistance and reliable sealing.)



材质 (Material): 高性能芳纶/凯夫拉复合材料 (High-Performance Aramid/Kevlar Composite)
特性 (Feature): 专门设计的压力激活密封组, 含头道环与压力环, 配合硬铬或HVOF涂层柱塞使用, 延长维护间隔。(Pressure-activated sealing set with header/pressure rings, optimized for Hard Chrome or HVOF coated plungers to extend service intervals.)

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HT-400™ TRIPLEX PLUNGER PUMP



参数项目 (Parameter)	规格数据 (Specification)
泵 类型 (Pump Type)	三缸柱塞泵 (Triplex Plunger Pump)
最大工作压力 (Max Pressure)	20,000 PSI
柱塞直径 (Plunger Diameter)	3-3/8" - 6.0" (85.7 mm - 152.4 mm)
液力端类型 (Fluid End Type)	标准十字孔型 / HCLE 高砂比型 (Standard Cross-bore / HCLE T-bore)
泵头体材料 (Body Material)	AISI 4330V 锻钢 (AISI 4330V Forged Steel)
最大排量 (Max Displacement)	19.2 BBL/min (806 GPM) @ 6" Plunger
应用场景 (Applications)	酸压、固井、连续油管、注水 (Acidizing, Cementing, Coil Tubing, Water Injection)

液力端 (Fluid End Body)



材质 (Material): 4330V 钒改性合金钢锻件 (4330V Vanadium Modified Forged Steel)
特性 (Feature): 经过真空脱气与自增强处理, 分体式模块化设计, 抗疲劳寿命极高 (Vacuum degassed & Autofrettage treated, split modular design, superior fatigue life)

柱塞 (Plungers)



材质 (Material): Colmonoy® 涂层钢 / 氧化锆陶瓷 (Colmonoy® Coated Steel / Zirconia Ceramic)
特性 (Feature): 表面喷焊镍基合金硬度达 HRC 60+, 耐酸液与盐水腐蚀 (Surface spray-welded nickel alloy to HRC 60+, resistant to acid & brine corrosion)

阀与阀座 (Valves & Seats)



材质 (Material): SAE 8620 或 20CrMnTi 渗碳钢 (SAE 8620 or 20CrMnTi Carburized Steel)
特性 (Feature): 深度渗碳淬火 (HRC 58-62), 锥度自锁设计, 配备 O 型圈防刺漏 (Deep carburized/quenched, tapered self-locking design, O-ring equipped)

Valve Insert	Standard Service (Polyurethane, Red/Brown)	316.22049	Component Name	Specification / Description	Mfg. Part No.
Valve Seat	Tapered, Carburized Steel	316.22047	Lube Oil Filter	Schroeder Magnetic Element (25 Micron)	K-25
Valve Body	High Pressure / Frac Service	316.22048	Crosshead Shoe	Bronze (Bottom Position)	316.11832
Valve Spring	Stainless Steel (25 lb/in)	316.2308	Crosshead Shoe	Bronze (Top Position)	316.11831
Discharge Seal	Valve Cover Gasket (4.5")	316.22052	Retainer Nut	Valve Cover Nut (Internal Wrenching)	316.11621
Packing Set	Standard Service Assembly	316.22501	Oil Seal	Worm Shaft Input Seal	70.46241

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SPM TWS 600S TRIPLEX WELL SERVICE PUMP



泵类型 (Pump Type)	往复式三缸单作用泵 (Reciprocating Triplex Single Acting)
额定功率 (Rated Power)	600 BHP (447 kW) @ 450 RPM
最大转速 (Max Speed)	450 - 488 RPM
冲程长度 (Stroke Length)	"6" (152.4 mm)
最大压力 (Max Pressure)	15,000 PSI (Standard) / 20,000 PSI (HD Model)
柱塞尺寸 (Plunger Sizes)	"2.5" - 4.5" (63.5 mm - 114.3 mm)
吸入接口 (Inlet Connection)	"6" Victaulic / Suction Manifold (6英寸卡箍/吸入管汇)
排出接口 (Discharge Connection)	"2" or 3" FIG 1502 Integral Connections (1502 由壬整体连接)

液力端总成 (Fluid End Assembly)



材质 (Material): 锻造合金钢 AISI 4330V / 4340 (Forged Alloy Steel 4330V/4340)
特性 (Feature): 采用整体锻造结构 (Mono-block) 消除铸造缺陷, 通过自增强工艺提升抗疲劳性; 可选 17-4PH 不锈钢用于高腐蚀酸化作业。
Mono-block forged design eliminates casting defects; autofrettage improves fatigue life. Stainless steel 17-4PH available for corrosive acidizing.)

柱塞 (Plungers)



材质 (Material): 镍基合金涂层 / 表面硬化 (Colmonoy Coated / Hard Faced)
特性 (Feature): 提供 2.5" 至 4.5" 多种尺寸, 允许在 "高压" 与 "大排量" 间转换。HD 版本配合 2.5" 柱塞可达 20,000 PSI。
(Versatile sizing from 2.5" to 4.5" allows switching between "High Pressure" and "High Volume". HD model achieves 20,000 PSI with 2.5" plungers.)

吸入阀与排出阀 (Suction & Discharge Valves)



材质 (Material): Novatech NF-4 全开式 / 渗碳合金钢 (Novatech NF-4 Full Open / Carburized Alloy)
特性 (Feature): 全开式无中心导向杆设计, 减少含砂流体阻力。阀体渗碳淬火, 配合聚氨酯 (Urethane) 嵌入件, 防止刚性冲击与疲劳。
(Full Open design without center post reduces resistance for sandy fluids. Carburized body with Urethane inserts prevents rigid impact and fatigue.)

盘根组件 (Packing Assembly)



材质 (Material): 复合织物/橡胶 (Composite Fabric/Rubber)
特性 (Feature): 包含头道环、压力环与刮油环。提供 EdgeX (抗 H2S/CO2) 及固井专用型 (耐磨), 需配合强制润滑系统使用。
(Includes Header, Pressure, and Wiper rings. Available in EdgeX (H2S/CO2 resistant) and Cementing-specific (abrasion resistant) styles; requires forced lubrication.)

Common Wear Parts & Spares List

柱塞 (Plunger)	2P103344	"3.5" 柱塞, 硬面涂层 (3.5" Plunger, Hard Coated)"
	Ref: 2P103342	"3" 柱塞, 硬面涂层 (3" Plunger, Hard Coated)"
盘根组 (Packing Set)	2A140376	"3.5" 完整组件, 含金属环 (3.5" Complete Set w/ Metal Rings)"
	P139816	"3.5" 软密封组, 仅橡胶件 (3.5" Soft Set, Rubber Only)"
凡尔总成 (Valve Assy)	P105742	"Novatech NF-4-V2, 含嵌件 (Novatech NF-4-V2 w/ Insert)"
阀座 (Valve Seat)	P105752	"Novatech NF-4-S2 (Standard Seat)"
凡尔胶皮 (Valve Insert)	P105761	"聚氨酯材质嵌件 (Polyurethane Insert)"
吸入盖密封 (Suction Seal)	P108291	"吸入阀盖 D 型密封 (Suction Cover D-Seal)"
排出盖密封 (Discharge Seal)	P109379	"排出阀盖 D 型密封 (Discharge Cover D-Seal)"
由壬密封 (Union Seal)	4P10229	"2" 1502 由壬密封圈 (Seal Ring 2" 1502)"

NOV 200T-5 TRIPLEX WELL SERVICE PUMP



泵类型 (Pump Type)	往复式三缸单作用柱塞泵 (Reciprocating Triplex Single Acting Plunger Pump)
额定功率 (Rated Power)	200 BHP (149.1 kW) @ 400 RPM
最大转速 (Max Speed)	400 RPM
冲程长度 (Stroke Length)	5" (127 mm)
最大压力 (Max Pressure)	5,000 PSI (34,474 kPa) [H Model]
柱塞尺寸 (Plunger Sizes)	1.25" - 4.00" (31.75 mm - 101.6 mm)
吸入接口 (Inlet Connection)	3" - 6" (Depending on Model L/M/H)
排出接口 (Discharge Connection)	2" - 3" (Depending on Model L/M/H)

液力端总成 (Fluid End Assembly)



材质 (Material): 镍铝青铜 (NAB), 碳钢或不锈钢 (Nickel-Aluminum-Bronze, Carbon Steel, or Stainless Steel)
特性 (Feature): 模块化设计覆盖 L/M/H 三种压力等级。NAB 材质具有极佳的耐海水腐蚀、抗气蚀及抗冲刷性能, 适用于严苛工况。(Modular design for L/M/H pressure ranges. NAB material offers superior resistance to saltwater corrosion, cavitation, and erosion for severe duty.)

柱塞 (Plungers)



材质 (Material): 实心陶瓷或碳化钨涂层 (Solid Ceramic or Tungsten Carbide Coated)
特性 (Feature): 实心陶瓷硬度 >HRC 70, 耐强酸与磨损; 涂层型结合了金属韧性, 适用于高冲击高压工况。(Solid ceramic (>HRC 70) for acid/abrasion resistance; Coated type combines toughness with wear resistance for high-pressure shock loads.)

盘根组件 (Packing Assembly)



材质 (Material): 芳纶纤维 (Kevlar) 或模压唇形 (Aramid Fiber/Kevlar or Molded Lip)
特性 (Feature): 填料函采用 17-4 PH 不锈钢或 NAB 制造, 耐高压 (150 ksi) 且耐腐蚀; 芳纶盘根专用于高温高压及润滑性差的介质。(Stuffing boxes made of 17-4 PH SS or NAB for high strength (150 ksi) and corrosion resistance; Aramid packing designed for high temp/pressure.)

中间杆 / 活塞杆 (Intermediate / Pony Rods)



材质 (Material): 不锈钢 (Stainless Steel)
特性 (Feature): 可更换式设计, 提供卡箍式 (Clamp) 与螺纹式 (Threaded) 两种连接选项, 便于维护与快速拆装。(Replaceable design available in Clamp or Threaded connection types for easy maintenance and quick disassembly.)

Common Wear Parts & Spares List

吸入阀 (Suction Valve)	179302025W	球形吸入阀, Nitronic 50 (Spherical Suction Valve)
排出阀 (Discharge Valve)	179302225W	球形排出阀, Nitronic 50 (Spherical Discharge Valve)
柱塞 (Plunger)	1712588	2.625" 实心陶瓷柱塞 (2.625" Solid Ceramic Plunger)
盘根组 (Packing Set)	342-753	适用于 2.625" 柱塞, Kevlar (For 2.625" Plunger, Kevlar)
填料函 (Stuffing Box)	342-952	柱塞填料函 (Plunger Stuffing Box)
阀弹簧 (Valve Spring)	342-270	Inconel 材质, 耐疲劳腐蚀 (Inconel, Corrosion Fatigue Resistant)
中间杆 (Intermediate Rod)	340-023	不锈钢中间杆 (Stainless Steel Pony Rod)
中间杆密封 (Wiper Seal)	1713297	中间杆防尘圈/刮油环 (Intermediate Rod Wiper)
十字头销 (Crosshead)	1716008	合金钢十字头销 (Alloy Steel Crosshead Pin)
密封维修包 (Seal Kit)	1717967	阀系维修包 (Valve Service Kit - Spherical Seat)

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A collection of various mechanical components, including a large red pump housing, a black gear, a yellow and black valve, a silver cylinder, and several smaller fittings and springs.

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