



SPM™ Oil & Gas

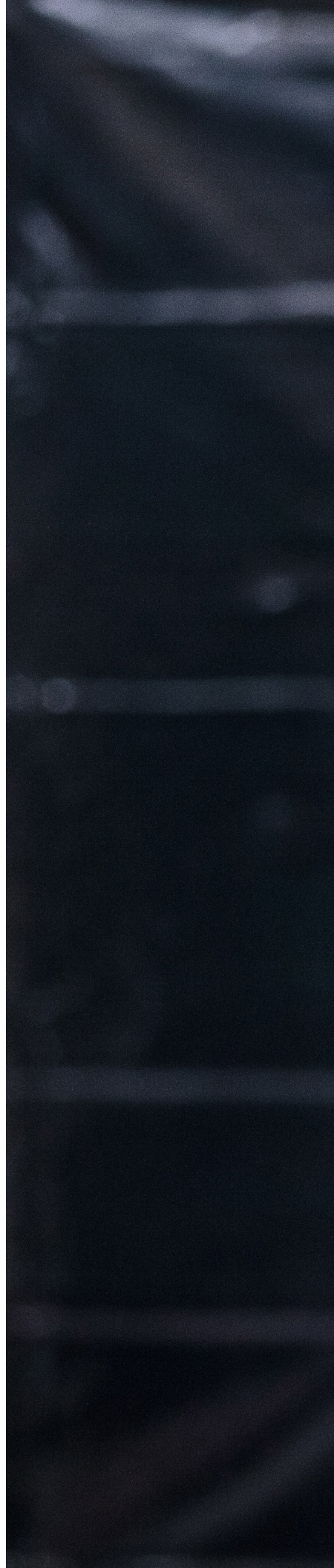
A Caterpillar Company

**Oil Field Equipment
and Tools**

Comprehensive surface
and service solutions

About SPM Oil & Gas

SPM Oil & Gas provides superior products and service solutions to make our customers more efficient and lower total cost of ownership. More customers choose our SPM® pressure pumping solutions than any other. We provide SPM® well service and stimulation pumps, flow control products, replacement expendable parts and supporting engineered repair services. SPM's Pressure Control solutions include Seaboard™ and KOP™ wellheads, API valves, frac trees, managed pressure drilling equipment including Mathena™ chokes, separators and containment equipment. Globally, we deliver engineered mechanical and rotating equipment repairs and upgrades, oilfield and drilling equipment repair and certification, rapid prototyping or spare parts, robust asset management and field engineering services.





SPM Oil & Gas Services

SPM Oil & Gas Services is a leading provider of quality products and services that meet the evolving needs of the industry by providing high performing and superior safety critical equipment. With years of experience in critical rotating equipment and valves, our global manufacturing capabilities meets most demanding standards of manufacturing specifications and requirements.

Drilling | Well Completion | Production | Refining | Services
Operation and Maintenance | Rentals

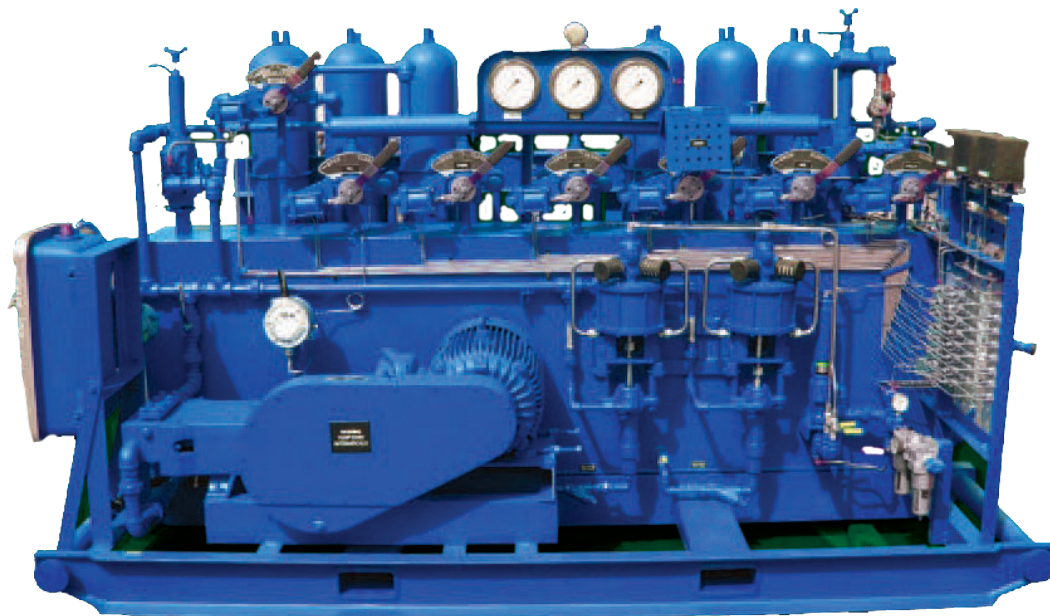
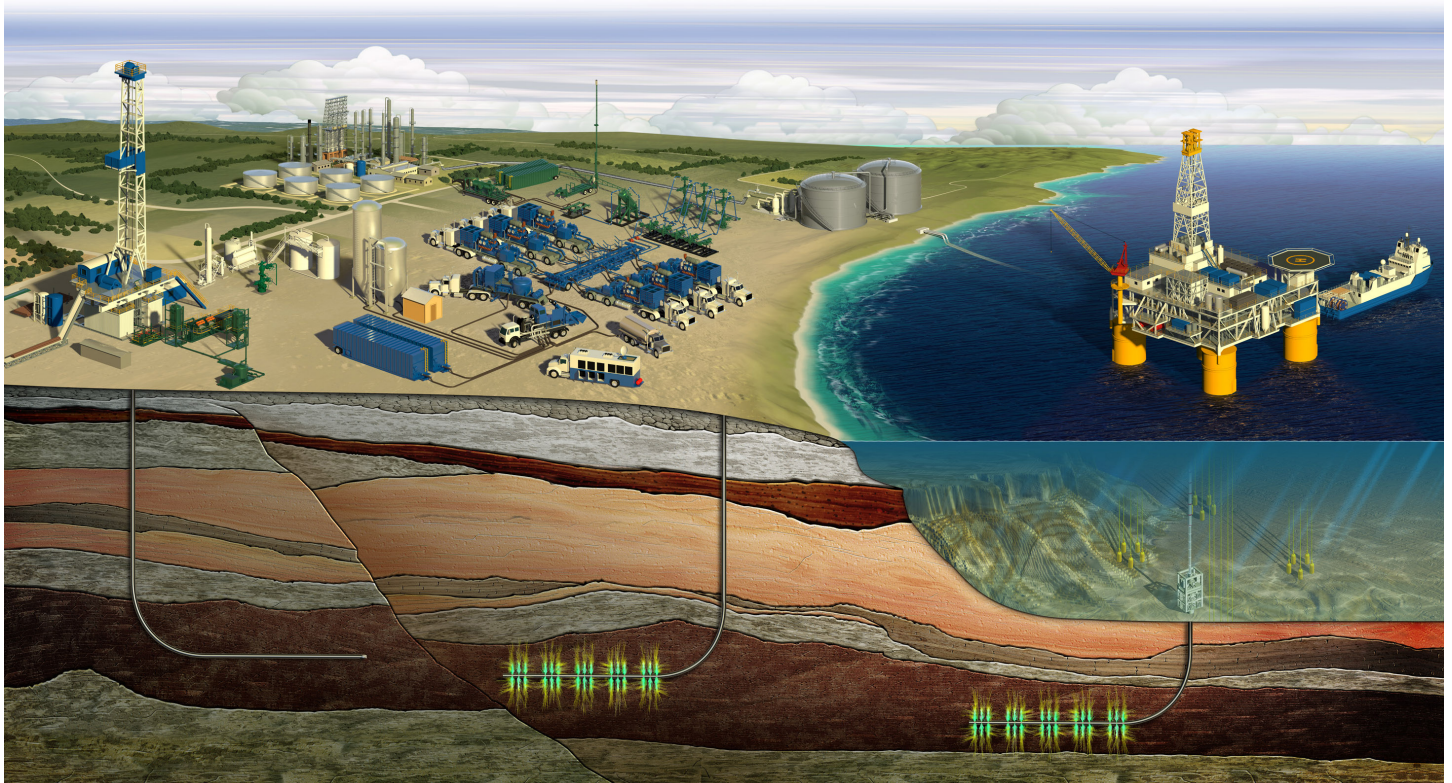


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WCS-10 API Valves

SPM Oil & Gas' WCS-10 API Valves offer bi-directional slab gate, metal-to-metal sealing technology and steam backseating capability and is ideal for drilling manifolds, christmas trees and severe services. Its design offers simple in-line field replacement of internal components for maintenance.

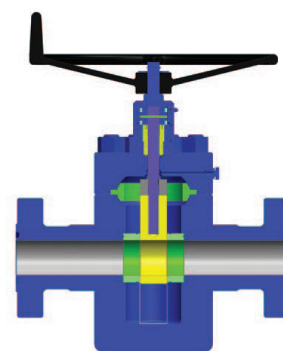


Design Features and Benefits

- WCS-10 valves offer a full range of valves for drilling and production operations
- Gate valves are designed and manufactured in accordance with API 6A latest edition PSL 1-4
- Robust, simple and reliable gate and seat design promotes ease of service with in-line maintenance
- One-piece parallel sided slab gate utilizes floating seats that co-opt line pressure to supply the sealing force
- Stem packing is chemically inert, using spring energizing rings which require no adjustment or plastic injection
- Stem packing can be replaced whilst the valve is under pressure
- Available in API Material Classes AA through HH
- Material for H₂S and CO₂ service is in accordance with NACE MR-01-175 latest edition
- Performance tested to PR2, temperature ratings K through X up to 350°F (177°C)

Trim

Service conditions	Trim	Body	Bonnet	Gate	Seat	Stem
General/non-corrosive	AA	4130	4130	4130	4130	4140
General/slightly corrosive	BB	4130	4130	410SS	410SS	410SS
General, moderately corrosive	CC	410SS	410SS	410SS	410SS	410SS
Sour, non-corrosive	DD-NL	4130	4130	430 QPQ	430 QPQ	430 QPQ
Sour, highly corrosive, CO ₂ and high abrasive	EE-NL	4130	4130	410SS	410SS	INCONEL 718
Sour, highly corrosive, CO ₂ and H ₂ S	FF-NL	410SS	410SS	410SS	410SS	INCONEL 718
High corrosion extreme service	HH-NL	4130 w/625 Inlay	4130 w/625 Inlay	INCONEL 718	INCONEL 718	INCONEL 718



Cut away of valve

Manifolds

SPM Oil & Gas' designs and manufactures manifolds in-house, complying with latest API 16C and 6A requirements. Modern machining and testing in a network of service centers are backed by 30 years of experience with a proven track record of reliability and short delivery times.



Capabilities

- API 6A and 16C monogram licenses
- Modern machining and testing in our network of service centers
- Manufacturing and testing up to 15,000 psi (working pressure)
- On-site inspection and commissioning, repair and field service
- Rental from stock

Products

- Choke and kill manifolds
- Standpipe manifolds
- Cement manifolds
- Well test manifolds
- Flow back manifolds
- Production manifolds
- Bypass manifolds/metering skid

Benefits

- Global provider of tailor-made solutions. Products can be manufactured to meet customer's requirements and specifications.
- Skid-mounted units manufactured to meet DNV 2.7-3 requirements
- Short delivery time
- In-house manufacturing capability for each component
- Manufacture of bulkhead manifolds for offshore applications

Drill Through Equipment

SPM Oil & Gas provides a one-stop-solution for complete drill through equipment manufacturing and services, tailored to customer needs.

It is supported by a network of service centers located close to major markets and key customers. Raw material stocking guarantee products are available when needed.



Capabilities

- Fully licensed workshops under API, ISO, CE standards
- Raw materials availability—stocking strategy and supply chain development
- High volume production workshops with latest CNC equipment, available 24 hours a day

Products

We manufacture, repair and re-certify under API 6A , API 16A standards the following products:

- Drilling Spools (mud cross)
- Diverter spools
- Spacer spools
- Adaptor
- Double studded adaptors
- Tie down adaptors
- Test stumps

Benefits

- Tailor solutions according to customers' needs
- Stock levels guarantee product availability when required
- Network of manufacturing facilities located close to major markets and key customers across MENA

OCTG and Drilling Tools

SPM Oil & Gas OCTG and drilling tools provide quick manufacturing turnaround to urgent customer needs for crossovers, tubing, pup joints, pony collars and casing connections. As one of the largest manufacturing and repair service centers in the region, we hold premium threading licenses for Tenaris Hydril, VAM®, NOV Grant Prideco, Voestalpine (VAGT®), Hunting, Nippon Steel, JFE, Tianjin, etc.



Capabilities

- Hardened and ground working gauges for the most common rotary shoulder connections—API IF, Reg and Full hole
- API Tubing and casing connections such as NU, EUE, LTC, STC and buttress
- Crossovers, pup joints and pony collars to be manufactured, according to customer's urgent requirements and needs
- CNC high volume production workshops available 24 hours per day

Products

- Casing and tubing, drill stem pipe and accessories repairs
- Pup joints, crossovers, couplings, drifts, mandrels, threaded protectors, nipples, test plugs, test caps, shooting nipples, circulating heads, mule shoes
- Crossover subs (bit subs, float subs, lift subs, saver subs, swivel subs, drill stem subs, Kelly saver subs, pump-in subs etc.)
- Circulating swages, side entry subs
- Fishing tools and wire line tools
- Redressing and hard facing of stabilizers

Benefits

- Raw material stocking guarantee product availability when required
- Repair and inspection of drill pipes, casing and tubing
- On-site repair and inspection
- Long-term rental gauge availability

Rental Products

OEM's rental capabilities for products needed for upstream operations include drilling, workover and completion services that deliver cost-effective solutions.



Capabilities

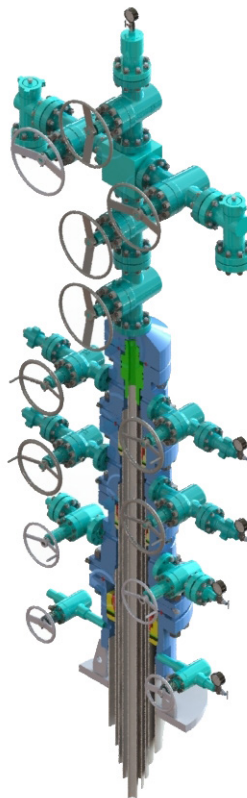
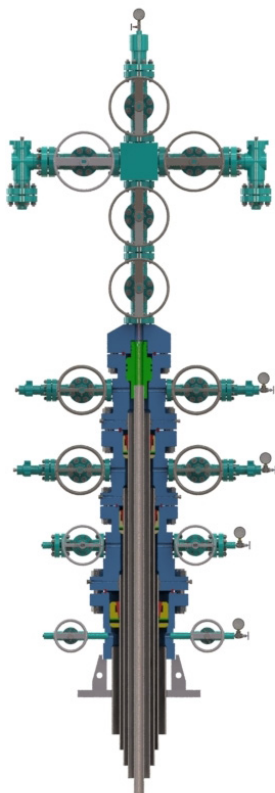
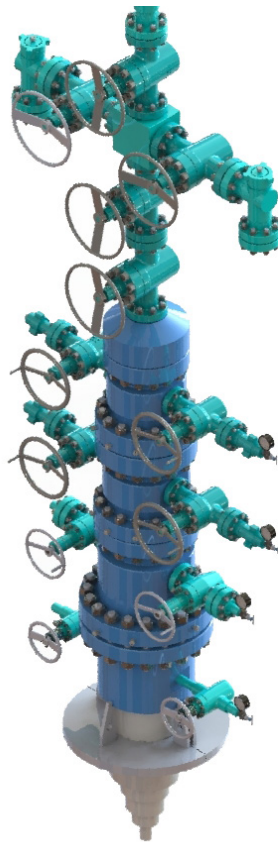
- Extensive selection of surface control and pressure control rental tools
- Repair, maintenance and manufacturing facilities across MENA
- R&D and engineering support to address customer's operational requirements
- Rapid response to urgent requirements
- Installation and maintenance

Products

- Mathena™ mud-gas separator, shale-gas separator, gas vent line igniter, premix tank, ecological containment system, hydraulic drilling choke, vent line and utility drive overs, choke manifold, production pit/volume tank
- Blowout and annular preventers
- Drilling spools (mud cross)
- Diverter spools
- Spacer spools
- Adaptor
- Double studded adaptors
- Tie down adaptors
- Test stumps
- Crossover subs (bit subs, float subs, lift subs, saver subs, swivel subs, drill stem subs, Kelly saver subs, pump-in subs, etc.)
- Pressure control accessories
- Choke and kill manifold systems
- Koomey/accumulator units
- API valves

Wellheads

SPM Oil & Gas is a major manufacturer of surface wellheads and accessories with state of the art manufacturing facilities in Houston and Dubai. We are close to major markets to support our customer operations.



Capabilities

- Leading provider of tailored solutions
- Highest standards in manufacturing
- Applications for a variety of pressure and temperature rating services

Products

- Conventional and unconventional HPHT wellheads, with the turnkey field installation services
- Frac trees and related frac valves
- Offshore tool box/kits, test plugs/wear bushings
- Greasing units and lubricators

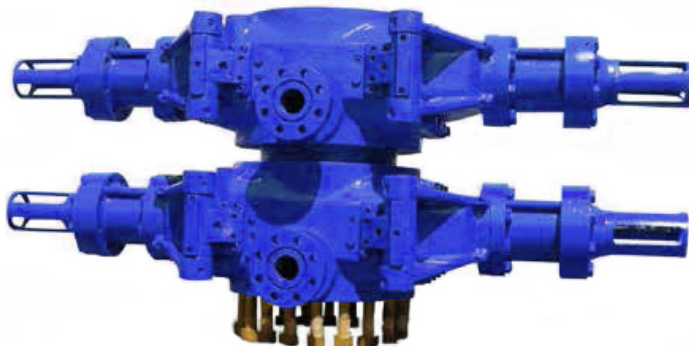
Benefits

- Modern manufacturing facility in Dubai to serve MENA region and Asia
- Network of service workshops strategically located across the region
- Short lead times

Blowout Preventors (BOPs)

Repair and recertification

SPM Oil & Gas provides a proven track record as a one-stop-solution for BOP remanufacturing, repair and recertification to improve equipment reliability and improve equipment performance.



Capabilities

- Inspection, remanufactures and certification of all Hydril Annular and Ram BOPs, including GK®, GL®, GX®, MSP® and V® type designs and pulsation dampeners as per OEM requirements
- Inspection, remanufacture and certification of all Axon Annular and Ram BOPs
- Inspection, remanufacture and certification of all type of BOPs as per API specifications and standards
- Pressure testing up to 30,000 psi
- Kelly cocks, square kellys, hexagonal kellys, etc.

Services

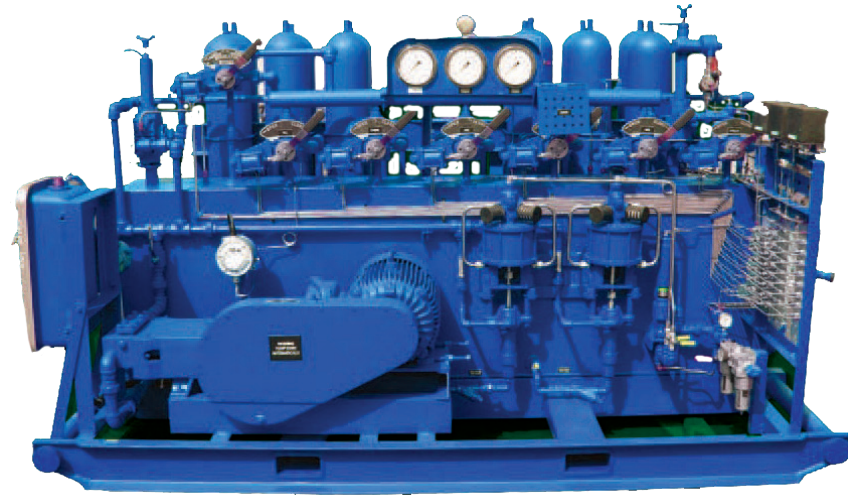
- Inspection
- Remanufacturing
- OEM certification for Hydril and Axon BOPs
- SPM Oil & Gas certification for all brands as per API 16A standards
- Rental SWAP BOPs
- On-site inspection, commissioning and field service

Benefits

- Repaired under OEM license agreements
- All type BOPs can be tested under API 16A
- Remanufacture to Hydril and Axon latest standards and specifications guaranteeing service reliability
- Reduction in customer downtime

BOP Control Systems

SPM Oil & Gas' blow-out prevention (BOP) control systems are manufactured to API 16D Monogram standards with quick delivery times and extensive customization possible.



Capabilities

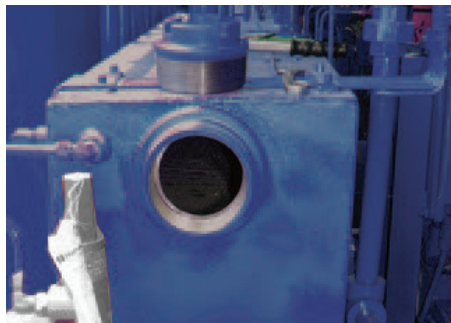
- Full testing capability
- Upgrading of existing hydraulic controls to electric or pneumatic systems
- Tailor-made solutions
- On-site inspection and commissioning, repair and field service
- Rental
- Proven quality and equipment service life history
- 24/7 fabrication capability

Services

- Repair and overhaul of hydraulic system
- Repair of remote control panels
- Upgrade control systems
- Manufacturing of manifolds
- Servicing of triplex and air motor pumps
- Installation of alarm systems as per API 16D

Benefits

- Short delivery time
- Highly competitive cost
- Rapid response and tailor-made solutions according to customer's needs



Fabrication

SPM Oil & Gas' fabrication and manufacturing standards have a proven track record for workmanship, quality and documentation.



Capabilities

- Procedures for carbon, stainless and super duplex stainless steels
- Global leader OEM for valves
- Fabrication and manufacturing under DNV, API, ISO and CE standards
- Highly trained design engineers, fabricators and qualified coded welders
- CNC high volume production workshops, available 24 hours a day

Products

- Production manifold
- Skids: multiphase flow meters, manifold skids, control units skids
- BOPs lifting clamps/frames
- Pipe racks
- HT and HP pipe works
- Multiphase flow meters
- Well test packages
- Snubbing unit window
- Telescopic bell nipples

Benefits

- One-Stop-Solution for manufacturing, fabrication and repair of equipment and tools
- Tailor-made solutions
- Short delivery time
- Strategic location of service centers to support key customers



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