WELLHEAD AND CHRISTMAS TREE

Wellhead and Christmas tree is the main equipment for oil production, water injection and downhole operation. It is installed on the casing head to seal the annular space between casing and tubing, control wellhead pressure, adjust well flow rate and transport oil to pipeline. The product was authorized to use API Spec 6A monogram in 2001 (Certificate No. 6A-0562). The product is also one of main products to be covered with ISO9001 quality system.

Wellhead equipment made in the plant can be used for oil and gas production, water or vapor injection and so on. It comes in the types of normal oil production wellhead, thermal recovery wellhead, offshore wellhead, low and high pressure anti-sulfide wellhead. The maximum operation pressure of the wellhead and Christmas tree is 105 MPa, which can meet the demand of API material classes of AA, BB, CC, DD and EE and temperature classes of L, P, S, T, U and V. The product's specification rate is PSL 1-4 and performance rate PR1. The procedure from design, manufacture, test to quality control is in accordance with the latest edition of API Spec 6A.

There are different designs of wellhead equipment, which can apply to the different well conditions in the plant. The plant also offers spare parts and can design and manufacture complete wellhead equipment or spare parts according to user's requirements.

Normal Wellhead & X-mas Tree

1- KY65-21 wellhead & X-mas tree comes in two types for flowing wells and pumping wells. For wells that can flow themselves and pressure at wellhead are not more than 25 MPa, flowing wellhead can be used. For pumping wells, pumping wellhead can be used. Flowing wellhead can be converted into pumping wellhead conveniently only by replacing the tee, cross and polished rod stuffing box.

The product has advantages of fast in installation, reliable in seal and beautiful in appearance.
2- KY65-35 wellhead & X-mas tree uses flanges for connection. It has the advantages such as easy in installation, fast in dismantling, reliable in seal both under low pressure and high pressure and long in working life.

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Water Injection Wellhead & X-mas Tree
High pressure and water injection wellhead & X-mas tree is used for increasing water absorbing capacity of oil reservoir and oil-producing capacity, keeping pressure of oil reservoir. Because working medium of the product is often sewage with high degree of mineralization and high temperature, we gave a fully account of its anti-corrosion capacity as well as its applicability and reliability in design and manufacture.

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High Pressure and Anti-sulfide Wellhead & X-mas Tree
The product is mainly used for deep or ultra deep wells or high pressure wells with hydrogen sulfide, or as completion wellhead equipment, it also meets the special technical requirements of high pressure acidization and fracturing operation, etc. In addition to the safety and reliability, complexity of recovery and workover technics and convenience of operation are also taken into account. Its main component, plate valve has advantages such as reliable in sealing and small in open and close torque.

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Offshore Wellhead & X-mas Tree
HKY Series wellhead and Christmas tree, which is treated specially and made of high strength and anti-corrosion materials, can apply to the wells of severe conditions such as high humidity and high corrosion. The maximum working pressure depends on the connection methods of the product.

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Double-channel Thermal Recovery Wellhead Equipment

Model KRS50/65-21 double-channel (vapor injection & oil production) thermal recovery wellhead equipment is suitable for intermittence thermal recovery or the recovery of ultra-thick oil. The equipment, which integrates vapor injection channel and oil production channel, has a compact structure. It can release pressure in inner bore of tubing, thus reduces the possibility of accident.

Characteristics

1. Has wonderful high temperature and high pressure resistance ability.
2. Reliable seal makes the product free from environment pollution.
3. Compact structure and small volume make it be convenient to install.

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Off-center Rotation Wellhead & X-mas Tree

Off-center rotation wellhead equipment is specially designed for annular logging. Its main function is moving the tubing string to one side of internal wall of casing string, so that the other side of annual space between tubing string and casing string can be enlarged. By the enlarged channel, downhole tools can be put into well easily to ensure success of annular logging operation. The product has advantages such as simple structure, reliable seal, flexible rotation and convenient operation.

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Thermal Recovery Wellhead & X-mas Tree

KR thermal recovery wellhead & X-mas tree is mainly used in wells using steam stimulation or other thermal recovery methods. Valve body, valve cover, valve plate, valve stem and so on are made of materials with good high temperature creep resistance,
the valves can operate at temperature up to 370 °C (698°F) and open or close under high pressure and high temperature without any deformation. Even at 370 °C, the seal rings can still maintain good sealing performance.

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**Theft Prevention Wellhead & X-mas Tree**

The function of theft prevention of Model FDKY65-21 theft prevention wellhead equipment is achieved by adding theft prevention valves and lock to the side outlets beside wellhead cross. Theft prevention lock is installed in the side outlet bore under the condition of normal production. When workover operation is needed, users have to unlock and dismantle the theft prevention lock at first.

For some workover operation, testing tool must be connected to the side outlet by thread connection before unlock the theft prevention valve. But for some other workover operation such as well washing, users do not need to connect the testing tool.

Both the valves and polished rod stuffing box have theft prevention function, open and close operation must be performed by special-used wrenches.

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