



Si Pu Rui

江苏斯普瑞石油装备有限公司

江苏斯普瑞井下压控循环开关阀资料汇编

井下压控循环开关阀 卷

江苏斯普瑞井下压控循环开关阀

(水力喷射、环空
加砂压裂用)

压控循环开关阀系列

Si Pu Rui



井下压控循环开关阀 FYX-52/114-70
使用说明

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井下压控循环开关阀 使用说明

一、用途

井下压控循环开关阀其结构合理，性能稳定，复式密封，安全可靠，是井控作业最适宜的产品。井下压控循环开关阀由上接头、主体、下接头、芯轴、阀座、阀板、弹簧、弹性复式密封组、内硬密封座、骨架密封等部件组成。该工具安装在压裂卡距段之上，可配合 API 油管、连续油管连接进行压裂作业，入井呈常关状态，卡距下至目的井段后油管起压，在油套压差大于 6.0MPa，快速开启，完成挤注后；地面节流控制返排，在套油压力大于 2.3MPa，逐步关闭，起管时可实现井口内孔防喷。

二、产品主要技术参数

名称：井下压控循环开关阀(防砂型)

型号：FYX-52/114-70

公称压力：10000PSI

开启：油套压差： $\geq 5 \sim 8$ MPa

关闭：套油压差： $\geq 2.1 \sim 2.7$ MPa（出厂前调定）

通径： ≥ 52 mm

温度范围：0~121℃

适用介质：水、油气、携沙液等

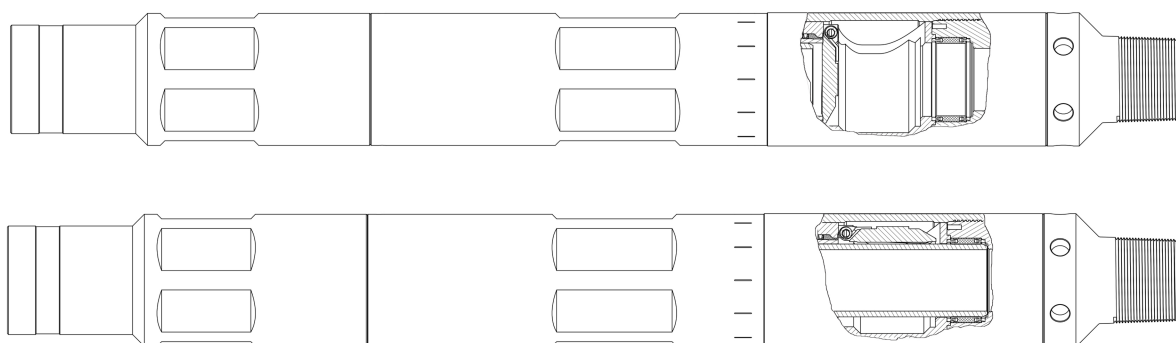
连接类型：2 7/8" UP TBG 螺纹

材料级别：EE

总长：1062mm

特别注意： 该工具在套管亏空较严重的井需选用低压差启闭的压控开关阀。

三、井下压控循环开关阀结构图



四、产品构成

主要由上接头、主体、下接头、芯轴、阀座、阀板、弹簧、弹性复式密封组、内硬密封座、骨架密封等部件组成。

五、使用与维护保养

1. 存放时应置于干燥通风外，并妥善封闭两端进出口，以防杂物进入内腔，接头外螺纹注意防护，以防撞碰。
2. 产品在出厂前均进行了强度试验，由于压力过高，不允许做重复试验。
3. 定期检查，以防主体与内部锈蚀和上下接头与主体间松动。

Underground loop voltage-controlled switching valve

Instructions for use

First, use

Underground loop voltage controlled switch valve , is the company's patented product, its structure is simple and practical , underground loop voltage controlled by the on -off valve connector body , lower joint , shaft , valve seats, valve plates , springs, elastic double seal group , the hard seal seat , frame seals and other components. The tool is mounted on the card from the fractured segments , coupled with API tubing, coiled tubing connections fracturing operations , into the well was normally closed state , the card away from the lower section of pipe from the well to the purpose of the pressure , the oil pressure is greater than 9.0 units MPa, quick opening , after the completion of squeeze ; ground throttle control flowback , oil pressure is greater than the set of 2.5MPa, the gradual closure can be achieved when the blowout preventer from the tube bore wellhead .

Second, the main technical parameters

Name: Underground voltage control loop off valve

Model : FYX-52/114-70

PN : 10000PSI

ON: Oil cap pressure : $\geq 5 \sim 8$ MPa

OFF: sets of hydraulic poor : $\geq 2.1 \sim 2.8$ MPa

Path : ≥ 52 mm

Temperature range : $0 \sim 121$ °C

Suitable medium : water, oil and gas, and other fluid carrying sand

Connection type : 2 7/8 "UP TBG thread

Material Grade : EE

Length : 1062mm

Special note: the tool in casing hole more serious well need low pressure differential pressure switch valve opening and closing.

Third, the underground structure of a voltage-controlled cyclic switching valve



Fourth, the product composition

Mainly by the connector body, lower joint, shaft, valve seats, valve plates, springs, elastic double seal group, the hard seal seat, frame seals and other components.

Fifth, use and maintenance

1. Should be stored in a dry ventilated outside and properly closed valves and export, to prevent debris entering the chamber, the joint protective outer thread attention to collision avoidance.
2. Products in the factory strength tests were carried out, because the pressure is too high, do not allow duplicate tests.
3. Regular inspection to prevent corrosion between the upper and lower body and interior fittings and body loose.