

## 凡尔总成:

德州润东石油机械有限公司所生产的凡尔总成,其主体材料采用高于石油行业标准的优质合金钢(20CrMnTi、20CrNiMo)制造,其凡尔胶皮采用新型高分子材料,研制生产出了系列高温、高压条件下抗冲击性能优越的高性能产品,目前德州润东石油机械有限公司生产的凡尔总成达到了国内外领先水平。

第一系列 主体材料: 20CrMnTi, 凡尔胶皮主料 JSR-220S;

特 点: 抗冲击性, 抗压一般, 泥浆温度 $\leq 60^{\circ}\text{C}$ , 最高适应温度  $120^{\circ}\text{C}$ ;

适用范围: 泵压 18Mpa 左右的情况下使用, 使用时间可达 200H;

第二系列 主体材料: 20CrMnTi, 凡尔胶皮主料聚氨、醚类材料;

特 点: 抗冲击性较好, 耐温性较差;

适用范围: 泵压 20Mpa 左右, 泥浆温度  $\leq 80^{\circ}\text{C}$  时使用, 使用时间可达 400H;

第三系列 主体材料: 20CrNiMo

特 点: 具有很高的抗高温性能

适用范围: 高压、高温系列泥浆泵 F-1600HL、F-2000HL 及复杂情况下使用, 具有良好的抗硫蚀性能。使用泵压在 $\geq 35\text{Mpa}$ , 温度最高适应  $260^{\circ}\text{C}$ , 使用时间可达 450H。

## Valve Assembly:

The main material of Valve Assembly is high quality alloy steels,such as 20CrMnTi, 20CrNiMo.The Valve Insert was made by newly high molecular materials,to make the mud pump spares to resist high-temperature,high-pressure,anti-friction and sulfur corrosion.

The valve assembly made by Dezhou Rundong Petroleum Machinery Co.,Ltd. ranks in the top class of international level.

### Frist Set

1.Main Part Materials:20CrMnTi,Valve insert : Japan JSR-220S.

2.Characteristics: Ordinary anti-impaction and anti-compression property. Temperature of mud $\leq 60^{\circ}\text{C}$ , Maxi operation temperature  $120^{\circ}\text{C}$ ;

3.Application: Pump pressure 18Mpa around,the service life 200H;

### Second Set

1.Main Part Materials:20CrMnTi,Valve insert : Polyurethane or Polyether ester.

2.Characteristics: Good anti-impaction and ordinary temperature tolerance property.

3.Application: Pump pressure 20Mpa around, Temperature of mud $\leq 80^{\circ}\text{C}$ ,the service life 400H.

### Third Set

1.Main Part Materials:20CrNiMo.

2.Characteristics: Excellent anti-impaction and high temperature tolerance property.

3.Application: High-pressure and high-temperature mud pump F-1600HL、F-2000HL,Excellent anti-sulfur corrosion.Pump pressure $\geq 35\text{Mpa}$ ,the Maxi temperature  $260^{\circ}\text{C}$ ,the service life 450H.

