

DR-178.NGT.4/5.54.M23 and DR-178.NGT.7/8.52.M23

PDM's DR-178.NGT.4/5.54.M23 and DR-178.NGT.7/8.52.M23 are Ø178 new universal hydraulic downhole motors used for drilling of oil and gas wells Safetv with rock and PDC bits of 212.7 – 250.8 mm diameter. sub An adjustable bent sub is placed between bearing section and power section. The adjustment range is between 0° and 2° or between 0° and 3° PDMs are completed with the bearing section of enhanced operational life, exceeding 300 hrs. The bearing section is fitted with the axial sliding bearing, having operating surfaces made of synthetic diamond, and the radial hard alloy bearings. PDMs are completed with imported extended power sections with enhanced operation life. Due to very short shoulder up to the point of axes misalignment (only 1856 mm) drillers can: perform tripping without significant pressing of a bit to internal walls in the production string; J – perform sidetracking of complex profile where it is required to alternate deviated intervals of more than 5°/10 m built rate and stabilization intervals with rotation of a drill string without the assembly tripping-out to replace the bend angle. minimize risk of leaving the motor parts in the well, as all the threads are screwed applying Loctite glue, and each motor is completed with safety sub. do a large volume of work with one motor (it is especially important for hard-to-reach regions) as the overhaul life reaches approximately 350 hrs. PDMs can be completed with replaceable centralizer and calibrator sub: 2 Calibrator sub Centralizer Ø178 Technical specification DR-178.NGT. DR-178.NGT. PDM model 4/5.54.M23 7/8.52.M23 Housing OD, mm 178/195 178/195 4/5 7/8 Power section lobe configuration 8751 8511 PDM length, mm 5 400 5210 Length of stator rubber lining, mm 1856 1856 Length of bearing section up to a curvature point, mm 212,7-250,8 212,7-250,8 Diameter of bits used, mm NC 50/5 1/2 FH NC 50/51/2FH Connecting thread to drill pipes 41/2 Reg Connecting thread to bits 41/2 Reg Maximum density of drilling mud, g/cm³ 1,9 1,9 250 250 Allowed axial load, kN 1273 1239 Weight, kg Power specification 856 mm Working fluid flow rate, l/s 30 25 - 40<u>0°-2°</u> 0°-3° Output shaft rotation speed: 248 - in no-load conditions, RPM 100-160 Ø195 Torque at maximum power, kN*m 10 13,4 008 Pressure drop: 13 13 at maximum power, MPa Ø145 Power, kW 230 164

8 751 mm (DR-178.NGT.4/5.54.M23) or 8 511 mm (DR-178.NGT.7/8.52.M23)