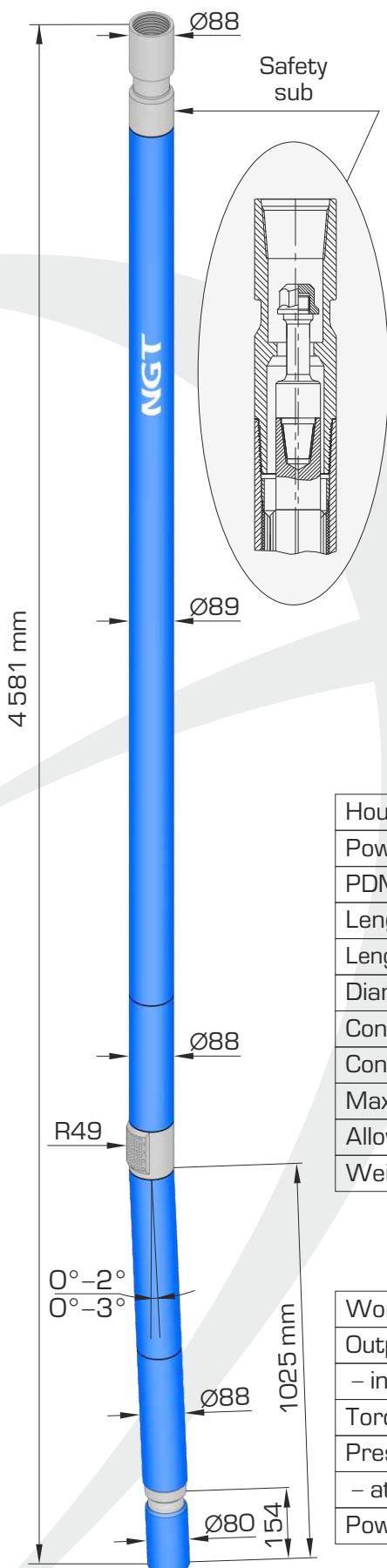


DR-88.NGT.7/8.27.M1



PDM DR-88.NGT.7/8.27.M1 is a new universal hydraulic downhole motor used for:

- drilling of oil and gas wells with 98.4 – 120.6 mm bits,
- well reconstruction by sidetracking with rock bits, PDC bits, including bicentric ones;
- well workover operations.

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°.

Bearing section has axial multi-row rolling bearing and radial hard alloy bearings. Due to a very short shoulder up to the point of axes misalignment (only 1025 mm) drillers can:

- perform tripping without significant pressing of a bit to internal walls in the production string;
- 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 3M glue, and each motor is complete 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 200 hrs.

Technical specification

Housing OD, mm	88/89
Power section lobe configuration	7/8
PDM length, mm	4 581
Length of stator rubber lining, mm	2 736
Length of bearing section up to a curvature point, mm	1 025
Diameter of bits used, mm	98,4–120,6
Connecting thread to drill pipes	2 3/8 Reg
Connecting thread to bits	2 3/8 Reg
Maximum density of drilling mud, g/cm ³	1,6
Allowed axial load, kN	50
Weight, kg	162

Power specification

Working fluid flow rate, l/s	2,8–8,2
Output shaft rotation speed:	
- in no-load conditions, RPM	74–215
Torque at maximum power, kN*m	1,34
Pressure drop:	
- at maximum power, MPa	4,3
Power, kW	28