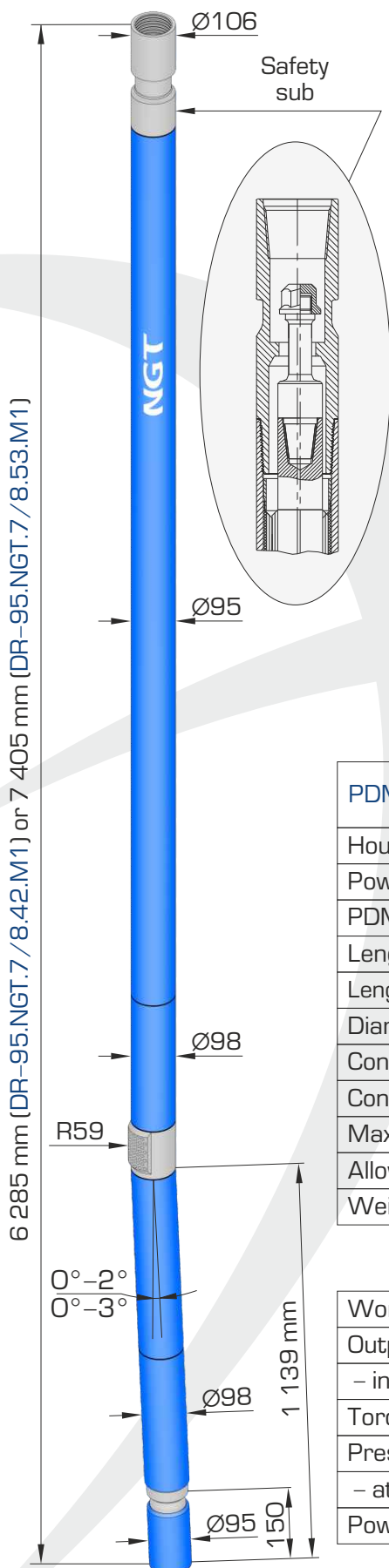


DR-95.NGT.7/8.42.M1 and DR-95.NGT.7/8.53.M1



PDM's DR-95.NGT.7/8.42.M1 and DR-95.NGT.7/8.53.M1 are new universal hydraulic downhole motors used for:

- drilling of oil and gas wells with 112 – 132 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 1139 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 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 200 hrs.

Technical specification

PDM model	DR-95.NGT.7/8.42.M1	DR-95.NGT.7/8.53.M1
Housing OD, mm	95/98	95/98
Power section lobe configuration	7/8	7/8
PDM length, mm	6 285	7 405
Length of stator rubber lining, mm	4 180	5 300
Length of bearing section up to a curvature point, mm	1 139	1 139
Diameter of bits used, mm	112-132	112-132
Connecting thread to drill pipes	NC 31	NC 31
Connecting thread to bits	2 7/8 Reg	2 7/8 Reg
Maximum density of drilling mud, g/cm ³	1,6	1,6
Allowed axial load, kN	55	55
Weight, kg	260	307

Power specification

Working fluid flow rate, l/s	5-10	5-10
Output shaft rotation speed:		
- in no-load conditions, RPM	126-257	150-340
Torque at maximum power, kN*m	2,46	3,12
Pressure drop:		
- at maximum power, MPa	5,36	8,0
Power, kW	60	100