

Technical proposal No. Liner hanger PH-178R1-01

The liner hanger (Fig. 1) is designed for lowering the "liners" (secret columns) of casing pipes $\varnothing 178$ mm and their cementing during the construction of oil and gas wells. Figure 2 shows the fitting of the male hub into the disconnecter case after cementing.

Technical characteristics:

Working pressure, max., MPa (Atm.)	15 (150);
Device working pressure after cementing, max., MPa (Atm.)	35 (350);
Cargo capacity, max.	150 tons;
Working temperature, max.	-
40 °C;	+160 °C;
Pressure of the discharge plug pin cut:	40-50 Atm.;
Pressure of the cut of pins of the plug for opening the "windows":	60-80 Atm.;
Coupling dimensions:	
top, coupling – tool-joint thread 3-122 GOST 28487-90	
bottom, nipple – thread buttress $\varnothing 178$ GOST P 51906-2009	
Dimensions, mm, max.:	- $\varnothing 194.5 \times 1615$
Weight, kg, max.	150

Materials:

Steel 40X GOST 4543-71;
 Aluminum alloy B16;
 High-temperature rubber RK1802
 B and B internal cavities are filled with the lubricant TOMFLON SCM 200 (0...+200° C) (TS 0254-012-76643964-05).

Completeness:

1) Liner hanger pcs.	1
2) Male hub, pcs.	1
3) Ball $\varnothing 50,8$ GOST 3722-81	1
4) Discharge plug , pcs.	1
5) PH-178R1 Operating instructions, copy	1



Fig. 1



Fig. 2