

Drilling swivel VB-320R1

Swivel is designed to retain a rotating drilling and other tool hanging with simultaneous supply of the operational fluid from the pump to the pipe string under drilling and oilfield enterprise conditions.

The swivel consists (Fig. 1) of the housing 1 with the feed line 2, a link 3 installed in the lugs of the housing 1 with the possibility of swinging on the pivot studs 4, a stem 5 with the sub 6 mounted on the bearings 7, 8 and 9 with rotation in the housing 1, and the upper 10 and lower 11 seals.

The top seal 10 (Fig. 2) is quick-detachable and connects to the feed 2 and stem 5 with the nuts 12 and 13. The seal consists of a nozzle 14 installed coaxial in the glass 15 and a set of rubber couplings 16 (4 pcs.) with rings 17 and 18 and a gland bush 19. The ends are sealed with a coupling and rubber rings 20.

The swivel VB-320R1 is equipped with a channel 21 with a stopper on the feedline 2 for the passage of the measure while drilling (Fig. 3).

Main technical features:

	VB-320R1	Note
Maximum load on the stem, kN (tf)	3200 (320)	
Maximum dynamic load on the stem, kN (tf) at a rotation speed of no more than 100 rpm	2000 (200)	
The maximum pressure of the pumped liquid, MPa (atm)	25 (250)	
Stem maximum rotations c ⁻¹	4.17	
Operating ambient temperature, °K (°C)	233 (-40)÷343 (+70)	
Weight, kg, max.	1990	
Dimensions, mm, max.	3250x988x635	
To feedline	NKT ø89	GOST 633-80
On the stem under the adapter sub	Z-152 Left	GOST 28487-90
On adapter subs under string	Z-152 Left	GOST 28487-90
On feedline under the measure while drilling	NKT ø60	GOST 633-80

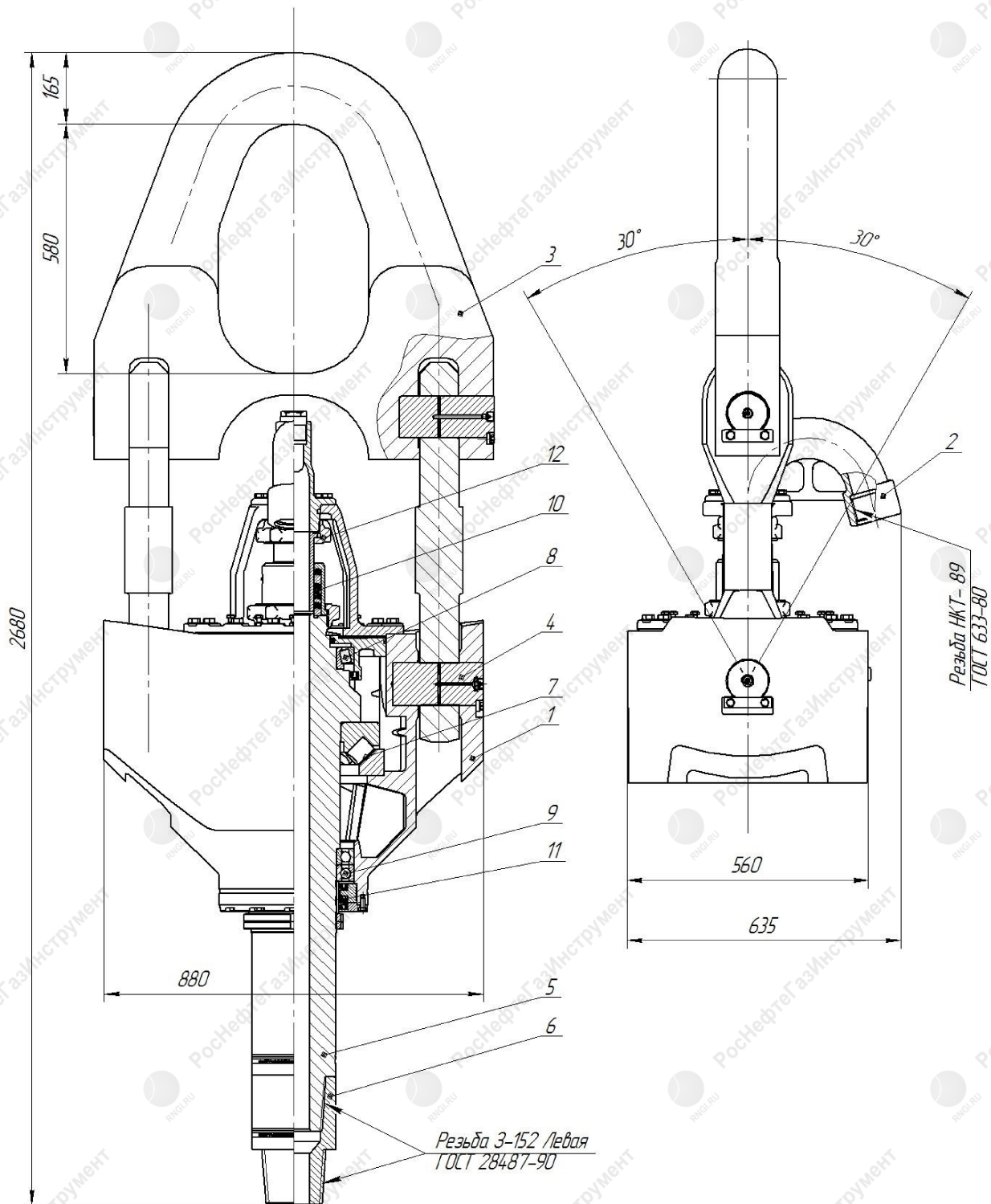


Fig. 1

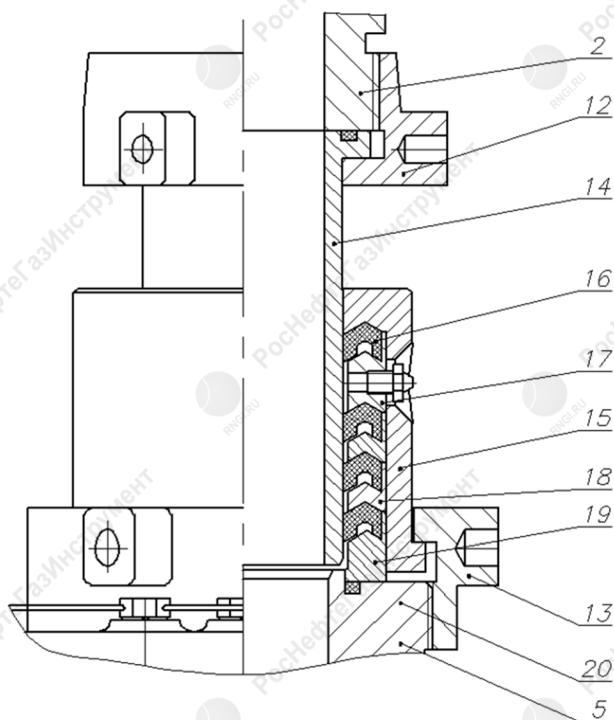


Fig. 2

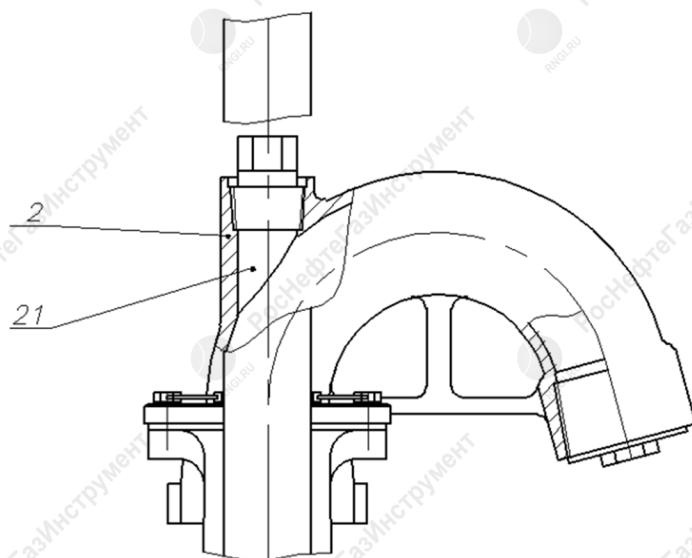


Fig. 3

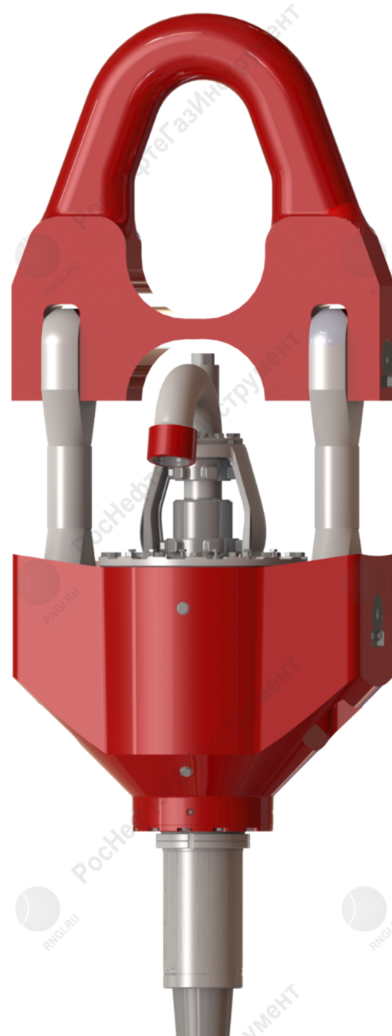


Fig. 4