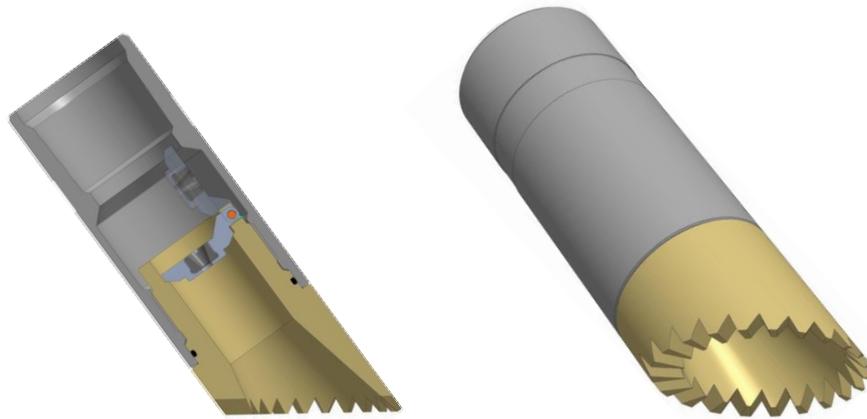


VALVE WITH WATER JET NOZZLE TYPE K-GN

The valve with water jet nozzle type K-GN is used to clean bottom-hole from sand and proppant plug.



Pic. 1

1. Operation principle

The valve with water jet nozzle consists of body with connecting thread, insert with hard “teeth” and spring-controlled valve with water jet nozzle. It is set into bottom hole assembly. There are hard “teeth” at the end of the valve for mechanical destruction down the hole. Momentum of stretched and then lowered under own weight lower part of casing string creates impact load; sand and proppant plugs are destroyed. The valve is in open position. Sludge is extracted by reverse washing. The tool has a special nozzle in order to provide water jet effect. If water jet washing is necessary it is possible to switch to direct washing at the surface. The valve closes and fluid goes through water jet nozzle and destructs solid crust at the bottom hole.

2. Technical parameters

Code	Outside diameter, in	Inside diameter, in	Length, ft	Diameter of water jet nozzle, in	Connecting thread	Weight, lb
K-NG-93	3.67	1.97	0.98	0.28	NKTV-73	15.44