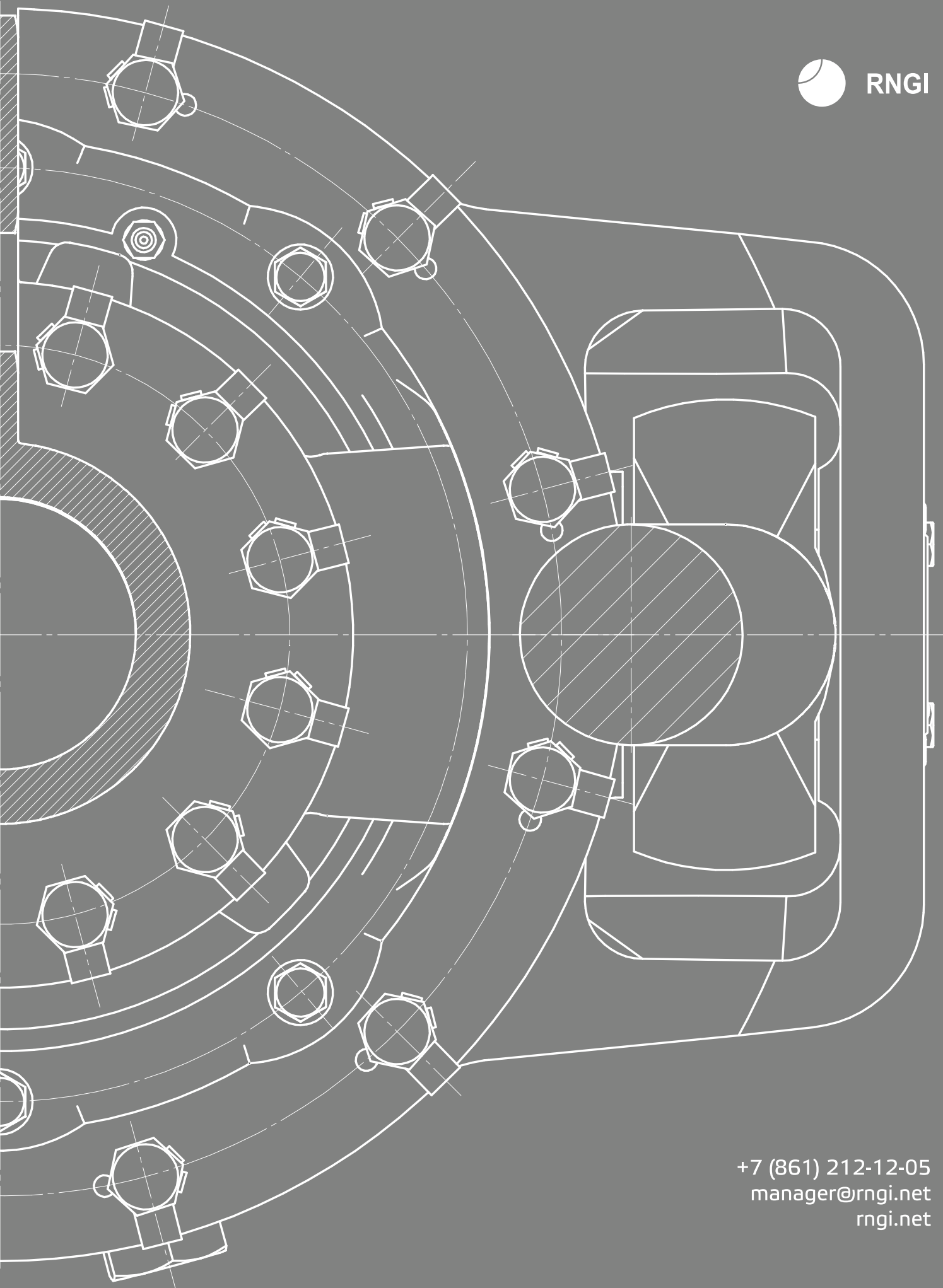
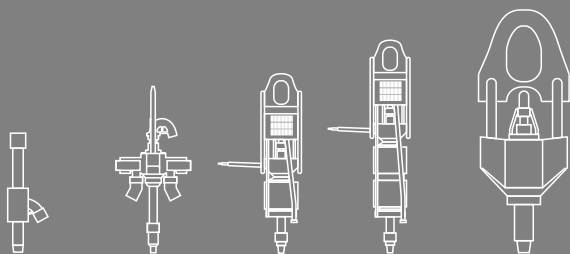
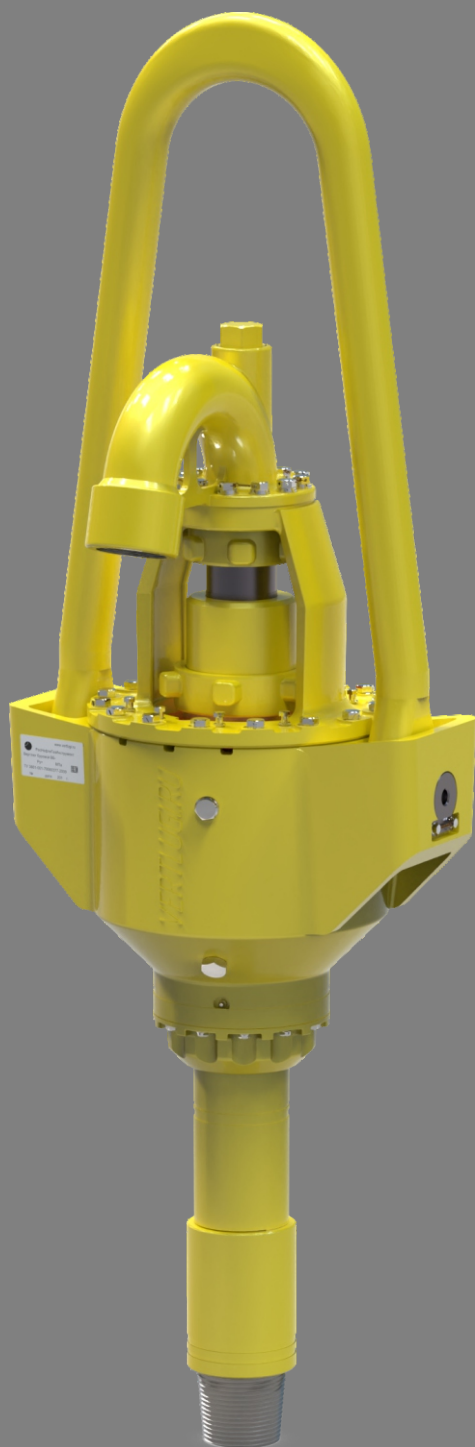






rngi.net

Drilling swivel

VB-100R1

VB-100R1 DRILLING SWIVEL

Drilling swivel is a highly loaded structure that holds the rotating drilling tool in place while simultaneously admission into the pipe string when drilling wells.

The swivel consists of the body with the gooseneck, a bail, installed in the lugs of the body with the possibility of swinging on the fingers, a stem with the sub mounted on the bearings with rotation in the body, and the upper and lower seals. The top seal is quick-detachable and connects to the gooseneck and stem with the upper and lower thread collar.

VB-100R1 Drilling swivel specifications.

Parameter name	VB-100R1	VB-100RR1
Cargo capacity kN (tf)	1000 (100)	1000 (100)
Maximum dynamic load on the stem, kN (ts)	625 (62,5)	625 (62,5)
Working pressure, PSI (atm)	3086 (210) ☐ 3674 (250) ☐ 5144 (350) ☐	3086 (210) ☐ 3674 (250) ☐ 5144 (350) ☐
Maximum stem rotation speed, s ⁻¹ (rpm)	3,33 (200)	3,33 (200)
Stem feedthrough hole diameter, mm	75	75
Gooseneck feedthrough hole diameter, mm	75	75
Overall dimensions (without sub), mm	1700x590x590	1700x590x590
Stem coupling thread by GOST 631-75	DP-127 Left	DP-127
Gooseneck coupling thread as per API Spec 5B	NUE-3½	NUE-3½
Gooseneck coupling thread to telemetry system as per API Spec 5B	NUE-2¾	NUE-2¾
Operating ambient temperature, °C	-40 - +45	-40 - +45
Weight, kg, no more	420	420

Different types of subs are available for each standard swivel size.

At the request of the customer, the drilling swivel can be purchased with additional options. Additional options allow you to expand the range of applications of the drilling swivel. Each option can be used constructively together with the swivel.

RNGI produces the following types of options:

Swivel bail extension

USHV-R1



Drilling hoses

RB-R1



Telemetry system sealer kit

KGTS-R1



fig. 1

Table 2a. Main subs specifications on the stem of drilling swivel VB-100R1 (select the appropriate option):

Sub	Pin thread, API 7	ID, mm	Include in the package
VB-100R1.00.28	NC 31 L.H.	48	☐
VB-100R1.00.09	NC 50 L.H.	80	☐
VB-100R1.00.33	5 ½ FH L.H.	80	☐
VB-100R1.00.34	6 ¾ Reg L.H.	90	☐

Table 2b. Main subs specifications on the stem of drilling swivel VB-100RR1 (select the appropriate option):

Sub	Pin thread, API 7	ID, mm	Include in the package
VB-100RR1.00.28	NC 31	48	☐
VB-100RR1.00.09	NC 50	80	☐
VB-100RR1.00.33	5 ½ FH	80	☐
VB-100RR1.00.34	6 ¾ Reg	90	☐

Gooseneck subs (fig 1), subs for QRC 2" (fig 2), subs with QRC 2" (fig 3), subs with flange (fig 4) may be delivered at consumer's request.



fig. 1



fig. 2



fig. 3



fig. 4



fig. 5

Table 3. Main subs specifications on the gooseneck of drilling swivel (select the appropriate option):

Sub	Length, inch (mm)	ID, inch (mm)	Thread, API Spec 5B	Fig.	Include in the package
Pin NUE-3 ½ x Pin NUE-3 ½	9 59/64" (252)	2" (50)	NUE-3 ½	2	☐
Pin NUE-3 ½ x Pin NUE-2 7/8	8 11/32" (212)	2" (50)	NUE-2 7/8	2	☐
Pin NUE-3 ½ x Pin NUE-2 3/8	8 11/32" (212)	2" (50)	NUE-2 3/8	2	☐
Pin NUE-3 ½ x Pin QRC2"	11 7/32" (285)	2" (50)	-	3	☐
Pin NUE-3 ½ with QRC2"	11 7/32" (285)	2" (50)	NUE-2 3/8	4	☐
Pin NUE-3 ½ with QRC2.5"	11 13/16" (300)	2 7/16" (62)	NUE-2 7/8	4	☐
Pin NUE-3 ½ with QRC3"	12 13/32" (315)	2 51/64" (75)	NUE-3 ½	4	☐
Pin NUE-3 ½ x flange type 2 OD 240mm	12 13/32" (315)	2 53/64" (76)	-	5	☐

Swivel package includes:

- 1) VB-100R1 Drilling swivel – 1 pc;
- 2) Set of spare parts kit*:
 - VB-100R1.01.01 Washpipe – 1 pc;
 - VB-100R1.01.06-01 rubber-fabric Oil seal** – 4 pcs;
 - 095-105-58-2-3 O-Ring GOST 18829-73 – 2 pcs;
 - 122-128-25-2-2 O-Ring GOST 18829-73 – 3 pcs;
- 3) Operating instruction – 1 pc.

* Upon consumer's request, it is possible to deliver an additional or extended set of spare parts kit.

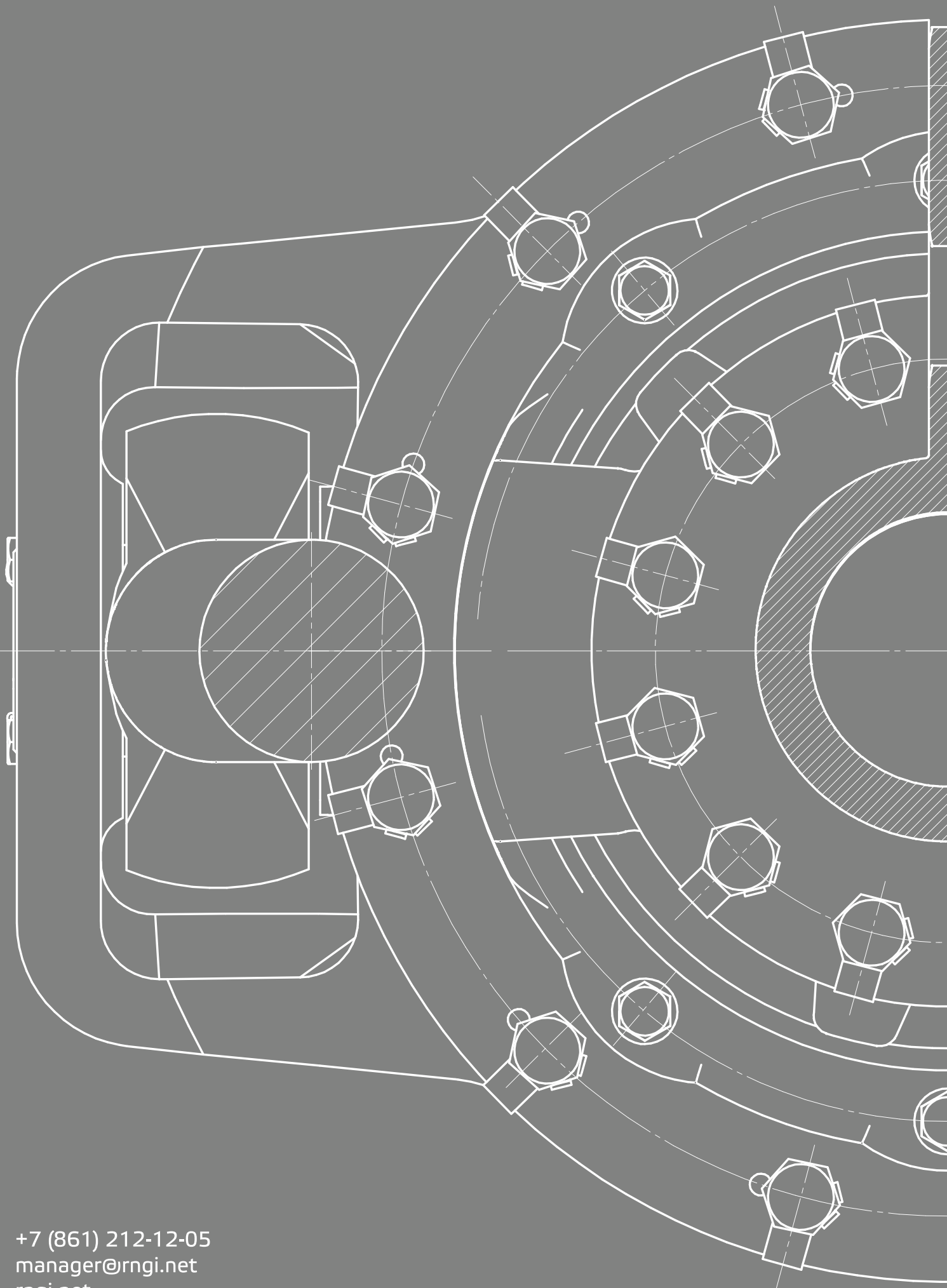
**Upon consumer's request, it is possible to make a swivel with VB-100R1.01.06 polyurethane oil seals.

Additional repair kit (select the appropriate option):

Typesize	Name	Quantity on swivel, pcs.	Quantity, pcs. (specify quantity)	Include in the package
VB-100R1.01.01	Washpipe	1		☐
VB-100R1.01.06-01 or VB-100R1.01.06	Oil seal	4		☐
095-105-58-2-3 GOST 18829-73	O-Ring	2		☐
122-128-25-2-2 GOST 18829-73	O-Ring	3		☐
VB-100R1.00.21	Oil seal	1		☐
VB-100R1.00.20	Oil seal	2		☐
185-190-36-2-2 GOST 18829-73	O-Ring	2		☐
VB-100R1.05.00	Oil seal	1		☐
310-320-58-2-3 GOST 18829-73	O-Ring	1		☐



fig. 1



+7 (861) 212-12-05
manager@rngi.net
rngi.net