

# NB, NBG, NK, NKG



Fitting single shaft seals with set screws

Service kit instructions





## **NB, NBG, NK, NKG**

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### **English (GB)**

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## English (GB) Service kit instructions

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### Original service kit instructions

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# 1. Fitting single shaft seals, types Dxxx and Axxx

## Single seal types

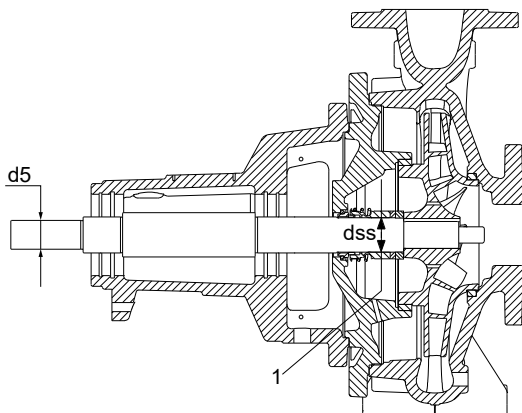
DAQF, DQQE, DQQV,  
DQQX, DQQK



AQAE, AQAV, AQQE,  
AQQV, AQQX, AQQK



## Shaft seal



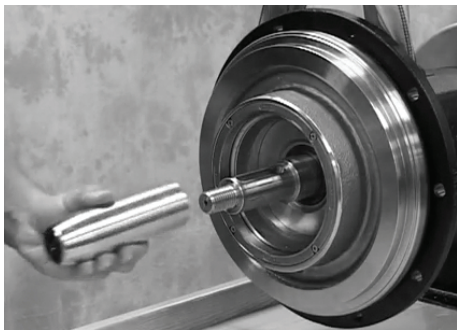
TM057229

## Shaft seal

Pos.	Description	d5 [mm]	dss [mm]
1	Shaft seal dimensions	Ø16	Ø20
		Ø24	Ø28
		Ø32	Ø38
		Ø42	Ø48
		Ø48	Ø55
		Ø60	Ø60

## 1.1 Assembly procedure

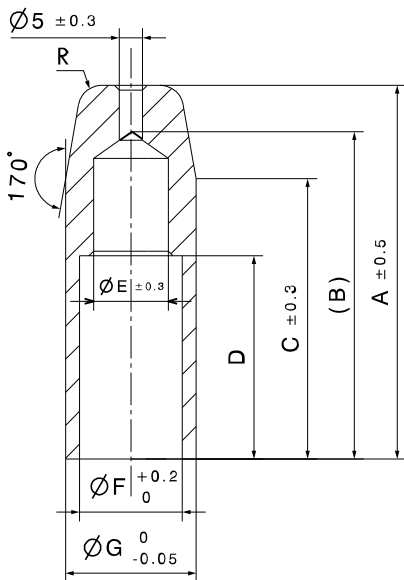
### 1.1.1 Fit the protective sleeve



*Fitting protective sleeve*

TM057376

This dimensional drawing can be used to manufacture needed protective tool.  
The tools can be manufactured in steel or nylon.



TM083954

Shaft seal diameter - dss [mm]	A	B	C	D	E	F	G	R
20	80	70	65	43.5	14	15	20	3
28	80	70	60	43.5	16	22	28	5
38	114	100	84	66	22	30	38	5
48	140	125	110	86	27	38	48	5
55	160	145	130	96.5	31	44	55	5
60	165	150	135	106	37	50	60	5

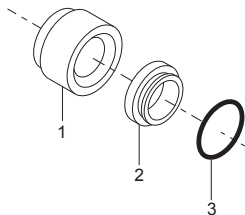


### 1.1.2 Fit the shaft seal



TM057377

*Lubricating shaft with soapy water*



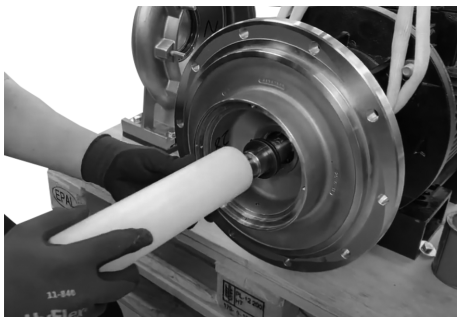
TM057278

*Shaft seal parts*

Pos.	Description
1	Rotating seal face
2	Stationary seat
3	O-ring, stationary seat



TM083958



TM083959

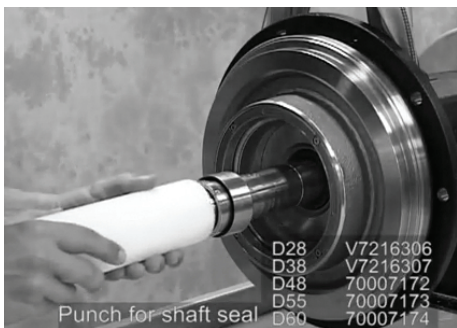
*Fitting the stationary part of the shaft seal*



TM057379

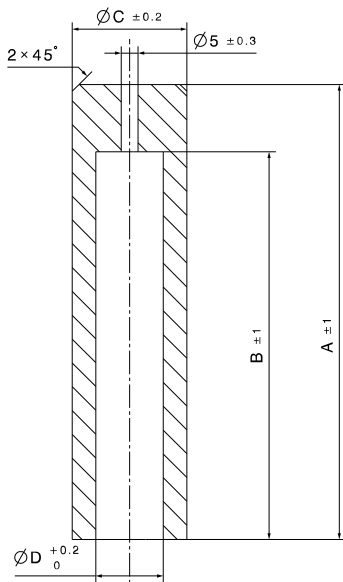
*Fitting the rotating part of the shaft seal*

### 1.1.3 Punch for shaft seal



TM057380

This dimensional drawing can be used to manufacture needed punch tool. The tools can be manufactured in steel or nylon.



TM083952

Shaft seal diameter - dss [mm]	A	B	C	D
20	135	115	34	20
28	147	127	43	28
38	202	182	54	38
48	253.5	233.5	64	48
55	308.5	288.5	73	55
60	331.5	311.5	78	60
100	232	212	124	100

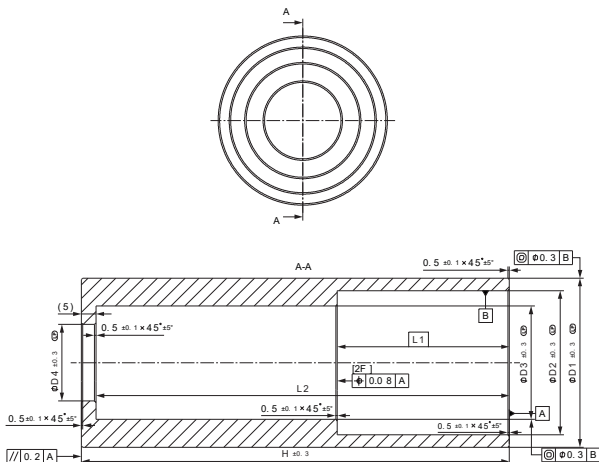
### 1.1.4 Position the shaft seal and spacer ring



TM057383

#### *Positioning tool for single shaft seal*

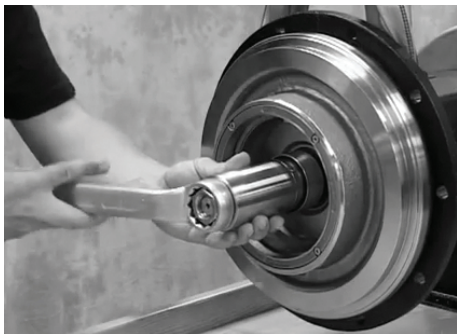
This dimensional drawing can be used to manufacture needed positioning tool. The tools can be manufactured in steel or nylon.



TM083953

Shaft seal	d5/dss	H	ØD1	ØD2	ØD3	ØD4	L1	L2	Weight [kg]
Single	D16/Ø20	44.5	24	-	15.5	13	-	39.5	0.094
Single	D24/Ø28	44.5	34	-	22.5	16	-	39.5	0.185
Single	D32/Ø38	67	44	-	30.5	20	-	62	0.429
Single	D42/Ø48	87	54	-	38.5	26	-	82	0.788
Single	D48/Ø55	97.5	61	-	44.5	29	-	92.5	1.074
Single	D60/Ø60	107	66	-	50.5	35	-	102	1.224
Single	D100/Ø100	153	110	-	85.5	18	-	148	0.683

Tighten positioning tool until it stops moving.



TM057384

*Positioning tool for single shaft seal*

### 1.1.5 Tighten the allen screws in the shaft seal



TM057385

*Tightening shaft seal*

Allen screw	Torque [Nm]
M4	2
M5	3
M6	6
M8	12



If it is not possible to use a torque tool, tighten until resistance + 15 degrees.



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