

NB, NBG, NK, NKG

Fitting the primary seal

Service kit instructions



be
think
innovate

GRUNDFOS 

CONTENTS

	Page
1. Fitting primary seals, types Dxxx and Axxx	3
1.1 Assembly procedure	5

1. Fitting primary seals, types Dxxx and Axxx

HJ92N/HJ977
DAQF, DQQE,
DQQV, DQQX,
DQQK

M7N
AQAE, AQAV,
AQQE, AQQV,
AQQX, AQQK



Fig. 1 Primary seal types

TM04 5656 3709 - TM04 5655 3709

Shaft seal

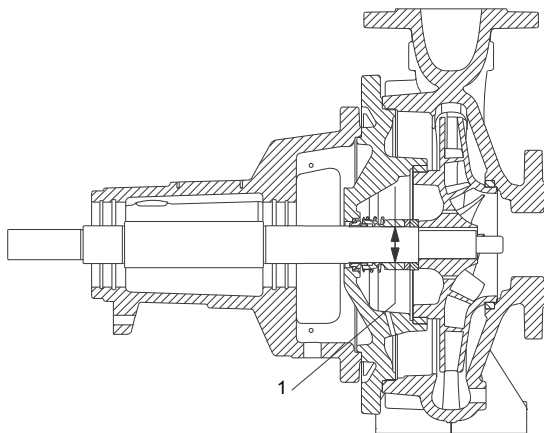


Fig. 2 Shaft seal

TM05 7229 0813

Pos.	Description	d [mm]
1	Shaft seal dimensions	Ø28
		Ø38
		Ø48
		Ø55
		Ø60

1.1 Assembly procedure

1.1.1 Fit the protective sleeve



Fig. 3 Fitting protective sleeve

Shaft seal diameter	Tool number
D28	V7216304
D38	V7216305
D48	70007165
D55	70007166
D60	70007167

1.1.2 Fit the shaft seal



Fig. 4 Lubricating shaft with soapy water

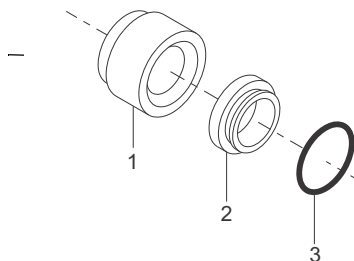


Fig. 5 Shaft seal parts

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

TM05 7377 0913

TM05 7278 0913

TM05 7379 0913



Fig. 6 Fitting shaft seal on shaft

1.1.3 Punch for shaft seal



TM05 7380 0913

Fig. 7 Punching for shaft seal

Shaft seal diameter	Product number, tool
D28	V7216306
D38	V7216307
D48	70007172
D55	70007173
D60	70007174

1.1.4 Spacer ring for primary shaft seal

Shaft seal diameter	Design	Length [mm]		Spacer ring*
		105b	105c	Product number
D28	-	-	7.5	GG-96520580/MM-96695720
D38	Design 1	15.5	10	GG-96039342/MM-96622403
	Design 2	-	10	GG-95520581/MM-96622404
D48	-	-	15	GG-96622398/MM-96622405
D55	-	-	22.5	GG-96622399/MM-96622406
D60	-	-	17.5	GG-96622401/MM-96622407

* **Note:** Spacer ring is NOT displayed in the picture.

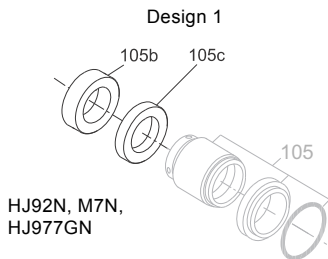


Fig. 8 Spacer for primary shaft seal, design 1

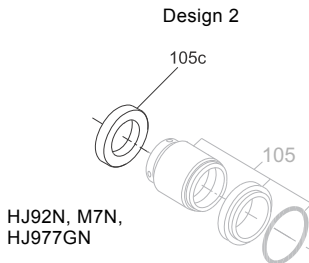


Fig. 9 Spacer for primary shaft seal, design 2

TM04 6801 0910

TM04 6800 0910

38 mm spacer ring			
Pump type		Shaft seal diameter	Design
50-32-	125.1	28	-
	160.1	28	-
	200.1	28	-
	125	28	-
	160	28	-
	200	28	-
	250	38	2
65-50-	125	28	-
	160	28	-
65-40-	200	28	-
	250	38	2
	315	38	1
80-65-	125	28	-
	160	28	-
80-50-	200	28	-
	250	38	2
	315	38	1
100-80-	125	28	-
	160	38	2
100-65-	200	38	2
	250	38	1
	315	48	-
125-80-	160	38	2
	200	38	1
	250	38	1
	315	48	-
	400	48	-
125-100-	160	38	2
	200	38	1
	250	48	-
	315	48	-
	400	48	-

38 mm spacer ring			
Pump type	Shaft seal diameter	Design	
150-125-	200	38	1
	250	48	-
	315	48	-
	400	48	-
	500	60	-
200-150-	200	38	1
	250	48	-
	315	55	-
	400	55	-
	500	60	-
250-200-	400	48	-
	450	48	-
300-250-	350	48	-
	400	48	-
	450	60	-
	500	60	-

1.1.5 Position the shaft seal and spacer ring



Fig. 10 Positioning tool for primary shaft seal

TM05 7383 0913

Shaft seal diameter	Tool
	Product number
D28	97525270
D38	97525291
D48	97525294
D55	97525295
D60	97525296



Fig. 11 Positioning tool for primary shaft seal

TM05 7384 0913

1.1.6 Tighten the shaft seal (allen screws)



Fig. 12 Tightening shaft seal

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

1.1.7 Remove positioning tool



Fig. 13 Removing positioning tool

TM05 7385 0913

TM05 7386 0913

Argentina

Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana, ramal Campana Centro Industrial Garín - Esq. Haendel y Mozart
AR-1619 Garín Pcia. de Buenos Aires
Pcia. de Buenos Aires
Phone: +54-3327 414 444
Telefax: +54-3327 45 3190

Australia

GRUNDFOS Pumps Pty. Ltd.
P.O. Box 2040
Regency Park
South Australia 5942
Phone: +61-8-8461-4611
Telefax: +61-8-8340 0155

Austria

GRUNDFOS Pumpen Vertrieb Ges.m.b.H.
Grundfosstraße 2
A-5082 Grödig/Salzburg
Tel.: +43-6246-883-0
Telefax: +43-6246-883-30

Belgium

N.V. GRUNDFOS Bellux S.A.
Boomssesteenweg 81-83
B-2630 Aartselaar
Tél.: +32-3-870 7300
Télécopie: +32-3-870 7301

Belarus

Представительство ГРУНДФОС в Минске
220125, Минск
ул. Шафарнянская, 11, оф. 56
Тел.: +7 (375 17) 286 39 72, 286 39 73
Факс: +7 (375 17) 286 39 71
E-mail:
minsk@grundfos.com

Bosnia/Herzegovina

GRUNDFOS Sarajevo
Trg Heroja 16,
BiH-71000 Sarajevo
Phone: +387 33 713 290
Telefax: +387 33 659 079
e-mail:
grundfos@bih.net.ba

Brazil

BOMBAS GRUNDFOS DO BRASIL
Av. Humberto de Alencar Castelo Branco, 630
CEP 09850 - 300
São Bernardo do Campo - SP
Phone: +55-11 4393 5533
Telefax: +55-11 4343 5015

Bulgaria

Grundfos Bulgaria EOOD
Slatina District
Iztochna Tangenta street no. 100
BG - 1592 Sofia
Tel. +359 2 49 22 200
Fax. +359 2 49 22 201
email: bulgaria@grundfos.bg

Canada

GRUNDFOS Canada Inc.
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Phone: +1-905 829 9533
Telefax: +1-905 829 9512

China

GRUNDFOS Pumps (Shanghai) Co. Ltd.
50/F Maxdo Center No. 8 XingYi Rd.
Hongqiao development Zone
Shanghai 200336
PRC
Phone: +86 21 612 252 22
Telefax: +86 21 612 253 33

Croatia

GRUNDFOS CROATIA d.o.o.
Cebini 37, Buzin
HR-10010 Zagreb
Phone: +385 1 6595 400
Telefax: +385 1 6595 499
www.grundfos.hr

Czech Republic

GRUNDFOS s.r.o.
Čajkovského 21
779 00 Olomouc
Phone: +420-585-716 111
Telefax: +420-585-716 299

Denmark

GRUNDFOS DK A/S
Martin Bachs Vej 3
DK-8850 Bjerringbro
Tlf.: +45-87 50 50 50
Telefax: +45-87 50 51 51
E-mail: info_GDK@grundfos.com
www.grundfos.com/DK

Estonia

GRUNDFOS Pumps Eesti OÜ
Peterburi tee 92G
11415 Tallinn
Tel: + 372 606 1690
Fax: + 372 606 1691

Finland

OY GRUNDFOS Pumput AB
Mestarintie 11
FIN-01730 Vantaa
Phone: +358-(0)207 889 500
Telefax: +358-(0)207 889 550

France

Pompes GRUNDFOS Distribution S.A.
Parc d'Activités de Chesnes
57, rue de Malacombe
F-38290 St. Quentin Fallavier (Lyon)
Tél.: +33-4 74 82 15 15
Télécopie: +33-4 74 94 10 51

Germany

GRUNDFOS GMBH
Schlüterstr. 33
40699 Erkrath
Tel.: +49-(0) 211 929 69-0
Telefax: +49-(0) 211 929
69-3799
e-mail: infoservice@grundfos.de
Service in Deutschland:
e-mail: kundendienst@grundfos.de

HILGE GmbH & Co. KG
Hilgestrasse 37-47
55292 Bodenheim/Rhein
Germany
Tel.: +49 6135 75-0
Telefax: +49 6135 1737
e-mail: hilge@hilge.de

Greece

GRUNDFOS Hellas
A.E.B.E.
20th km.
Athion-Markopoulou Av.
P.O. Box 71
GR-19002 Peania
Phone: +0030-210-66 83
400
Telefax: +0030-210-66 46
273

Hong Kong

GRUNDFOS Pumps (Hong Kong) Ltd.
Unit 1, Ground floor
Siu Wai Industrial Centre
29-33 Wing Hong Street &
68 King Lam Street, Cheung Sha Wan
Kowloon
Phone: +852-27861706 /
27861741
Telefax: +852-27858664

Hungary

GRUNDFOS Hungária Kft.
Park u. 8
H-2045 Törökbálint,
Phone: +36-23 511 110
Telefax: +36-23 511 111

India

GRUNDFOS Pumps India
Private Limited
118 Old Mahabalipuram
Road
Thoraipakkam
Chennai 600 096
Phone: +91-44 2496 6800

Indonesia

PT GRUNDFOS Pompa
Jl. Rawa Sumur III, Blok III /
CC-1
Kawasan Industri, Pulogadung
Jakarta 13930
Phone: +62-21-460 6909
Telefax: +62-21-460 6910 /
460 6901

Ireland

GRUNDFOS (Ireland) Ltd.
Unit A, Merrywell Business
Park
Ballymount Road Lower
Dublin 12
Phone: +353-1-4089 800
Telefax: +353-1-4089 830

Italy

GRUNDFOS Pompe Italia
S.r.l.
Via Gran Sasso 4
I-20060 Truccazzano
(Milano)
Tel.: +39-02-95838112
Telefax: +39-02-95309290 /
95838461

Japan

GRUNDFOS Pumps K.K.
Gotanda Metalion Bldg., 5F,
5-21-15, Higashi-gotanda
Shiagawa-ku, Tokyo
141-0022 Japan
Phone: +81 35 448 1391
Telefax: +81 35 448 9619

Korea

GRUNDFOS Pumps Korea
Ltd.
6th Floor, Aju Building
679-5
Yeoksam-dong, Kangnam-ku,
135-916
Seoul, Korea
Phone: +82-2-5317 600
Telefax: +82-2-5633 725

Latvia

SIA GRUNDFOS Pumps
Latvia
Deglava biznesa centrs
Augusta Deglava ielā 60,
LV-1035, Rīga,
Tālr.: + 371 714 9640, 7 149
641
Fakss: + 371 914 9646

Lithuania

GRUNDFOS Pumps UAB
Smolensko g. 6
LT-03201 Vilnius
Tel: + 370 52 395 430
Fax: + 370 52 395 431

Malaysia

GRUNDFOS Pumps Sdn.
Bhd.
7 Jalan Peguam U1/25
Glenmarie Industrial Park
40150 Shah Alam
Selangor
Phone: +60-3-5569 2922
Telefax: +60-3-5569 2866

Mexico

Bombas GRUNDFOS de
México S.A. de C.V.
Boulevard TLC No. 15
Parque Industrial Stiva Aereo
Apodaca, N.L. 66600
Phone: +52-81-8144 4000
Telefax: +52-81-8144 4010

Netherlands

GRUNDFOS Netherlands
Veluwezoom 35
1326 AE Almere
Postbus 22015
1302 CA ALMERE
Tel.: +31-88-478 6336
Telefax: +31-88-478 6332
E-mail: info_gnl@grundfos.com

New Zealand

GRUNDFOS Pumps NZ Ltd.
17 Beatrice Tinsley Crescent
North Harbour Industrial Estate
Albany, Auckland
Phone: +64-9-415 3240
Telefax: +64-9-415 3250

Norway

GRUNDFOS Pumper A/S
Strømsveien 344
Postboks 235, Leirdal
N-1011 Oslo
Tlf.: +47-22 90 47 00
Telefax: +47-22 32 21 50

Poland

GRUNDFOS Pompy Sp. z o.o.
ul. Klonowa 23
Baranowo k. Poznania
PL-62-081 Przeźmierowo
Tel: (+48-61) 650 13 00
Fax: (+48-61) 650 13 50

Portugal

Bombas GRUNDFOS Portugal, S.A.
Rua Calvet de Magalhães, 241
Apartado 1079
P-2770-153 Paço de Arcos
Tel.: +351-21-440 76 00
Telefax: +351-21-440 76 90

Romania

GRUNDFOS Pompe
România SRL
Bd. Biruintei, nr 103
Pantelimon county Ilfov
Phone: +40 21 200 4100
Telefax: +40 21 200 4101
E-mail:
romania@grundfos.ro

Russia

ООО Грундфос
Россия, 109544 Москва,
ул. Школьная 39
Тел. (+7) 495 737 30 00,
564 88 00
Факс (+7) 495 737 75 36,
564 88 11
E-mail
grundfos.moscow@grundfos.com

Serbia

GRUNDFOS Predstavništvo
Beograd
Dr. Milutina Ivkovića 2a/29
YU-11000 Beograd
Phone: +381 11 26 47 877 /
11 26 47 496
Telefax: +381 11 26 48 340

Singapore

GRUNDFOS (Singapore)
Pte. Ltd.
25 Jalan Tukang
Singapore 619264
Phone: +65-6681 9688
Telefax: +65-6681 9689

Slovenia

GRUNDFOS d.o.o.
Štandrova 8b, SI-1231
Ljubljana-Črnuče
Phone: +386 1 568 0610
Telefax: +386 1 568 0619
E-mail: slovenia@grundfos.si

South Africa

GRUNDFOS (PTY) LTD
Corner Mountjoy and
George Allen Roads
Wilbart Ext. 2
Bedfordview 2008
Phone: (+27) 11 579 4800
Fax: (+27) 11 455 6066
E-mail: Ismart@grundfos.com

Spain

Bombas GRUNDFOS
España S.A.
Camino de la Fuentecilla,
s/n
E-28110 Algete (Madrid)
Tel.: +34-91-848 8800
Telefax: +34-91-628 0465

Sweden

GRUNDFOS AB
Box 333 (Lunnagårdsgatan
6)
431 24 Mölndal
Tel.: +46 31 332 23 000
Telefax: +46 31 331 94 60

Switzerland

GRUNDFOS Pumpen AG
Bruggacherstrasse 10
CH-8117 Fällanden/ZH
Tel.: +41-1-806 8111
Telefax: +41-1-806 8115

Taiwan

GRUNDFOS Pumps (Taiwan) Ltd.
7 Floor, 219 Min-Chuan
Road
Taichung, Taiwan, R.O.C.
Phone: +886-4-2305 0868
Telefax: +886-4-2305 0878

Thailand

GRUNDFOS (Thailand) Ltd.
92 Chaloeam Phrakiat Rama
9 Road,
Dokmai, Pravej, Bangkok
10250
Phone: +66-2-725 8999
Telefax: +66-2-725 8998

Turkey

GRUNDFOS POMPA San.
ve Tic. Ltd. Sti.
Gebze Organize Sanayi
Bölgesi
Ihsan dede Caddesi,
2. yol 200. Sokak No. 204
41490 Gebze/ Kocaeli
Phone: +90 - 262-679 7979
Telefax: +90 - 262-679 7905
E-mail: satis@grundfos.com

Ukraine

ТОВ ГРУНДФОС УКРАЇНА
01010 Київ, Вул.
Московська 8б,
Тел.: (+38 044) 390 40 50
Факс.: (+38 044) 390 40 59
E-mail:
ukraine@grundfos.com

United Arab Emirates

GRUNDFOS Gulf Distribu-
tion
P.O. Box 16768
Jebel Ali Free Zone
Dubai
Phone: +971 4 8815 166
Telefax: +971 4 8815 136

United Kingdom

GRUNDFOS Pumps Ltd.
Grovebury Road
Leighton Buzzard/Beds.
LU7 4TL
Phone: +44-1525-850000
Telefax: +44-1525-850011

U.S.A.

GRUNDFOS Pumps Corpo-
ration
17100 West 118th Terrace
Olathe, Kansas 66061
Phone: +1-913-227-3400
Telefax: +1-913-227-3500

Uzbekistan

Представительство
ГРУНДФОС в Ташкенте
700000 Ташкент
ул.Усмана Носира 1-й
тулик 5
Телефон: (3712) 55-68-15
Факс: (3712) 53-36-35

Revised 11.02.2013

be think innovate

98434582 0313
ECM: 1109266

www.grundfos.com

GRUNDFOS 

Pumpland.ru

The name Grundfos, the Grundfos logo, and **be think innovate** are registered trademarks owned by Grundfos Holding A/S or Grundfos A/S, Denmark. All rights reserved worldwide.

© Copyright Grundfos Holding A/S