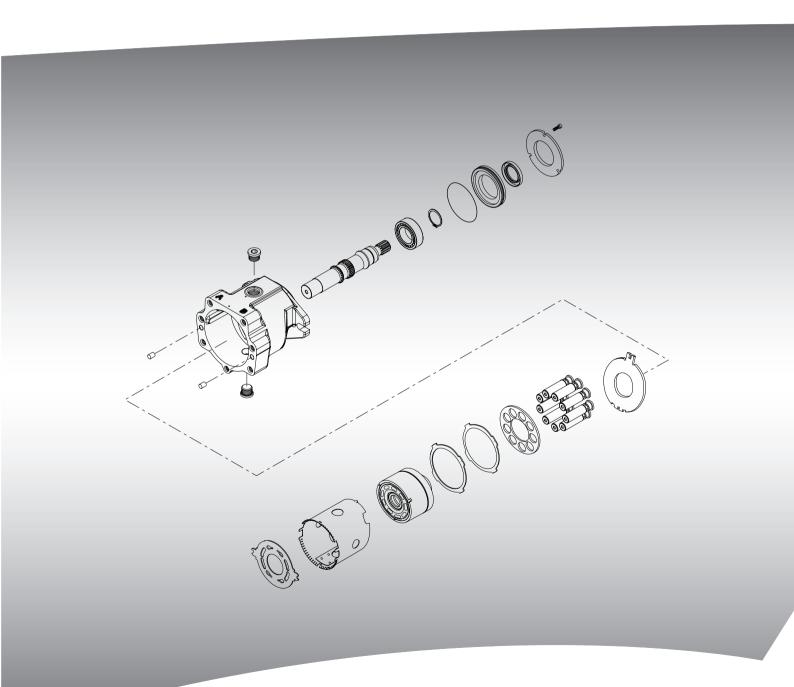


# Series 90 42 cc

# **Axial Piston Motors**











### **Series 90 42 cc Axial Piston Motors**



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#### **Series 90 42 cc Axial Piston Motors**



#### **General information**

## Service parts indentification

The following information and procedure is used to identify the module group, item number, manufacture date, part number, and part name of the parts included in the Series 90, 42 cc fixed displacement cartridge motor.

The parts listed include all parts which may be used when performing either "Minor Repairs", "Major Repairs" or "Conversions" on the Series 90, 42 cc motor.

#### Nameplate

Each unit will have a nameplate affixed to the housing. The nameplate will include the following information.

#### **Model Code**

The Danfoss model code completely defines the specific unit and must be used when ordering parts to service this product.

#### **Model Number**

The Danfoss model number is used by the factory in manufacturing. On repeat orders, a complete unit can be ordered by the model number.

#### **Serial Number**

The Danfoss serial number is used to identify the manufacture date and the unit sequence in the build. The serial number is also used to identify the units warranty time period.

The letter code indicates the location of original manufacture (assembly). "N" indicates the unit was originally assembled in Neumunster, Germany.

The first number (2 digits) indicates the year of manufacture. ("01" would indicate the unit was manufactured in 2001)

The second number (2 digits) indicates the calendar week of manufacture.

The third number (5 digits) is a sequential number used to identify a specific unit.





#### **Series 90 42 cc Axial Piston Motors**



#### **General information**

#### Date code

The date code is defined as the year and week of manufacture. The same item number may list more than one part number. This indicates that there is more than one configuration for that item number. You will see that there are different date codes for the different part numbers. Find the date code of your unit from the nameplate to determine which service part number you need to order.

EXAMPLE: The service part desired is Item H10

Order Code		Date Begin		Part Number	Part Name	Usage
N	H10	89-38		8800668	Loop flushing spool, defeated	1
	H10	87-02	89-37	8800021	Loop flushing spool, defeated (SB-1989-020)	1

All units using this order code with a date code of 87-02 and up to and including 89-37, must use part number "8800021". All units with a date code of 89-38 and newer must use part number "8800668".

#### **Service bulletins**

A Service Bulletin Number (SB-\_\_\_-) may follow the "Part Name" of the part you desire. You must read that Service Bulletin prior to ordering that part. The information contained in these Service Bulletins, as of the print date of this bulletin, are included at the end of this manual. Service Bulletins contain more detailed information such as interchangeability, what additional parts are involved, etc. It is suggested that you add additional Service Bulletins to this manual as you recieve them.

#### General

#### Procedure to identify a part

The modular design of Series 90 units results in a simplified service parts list and part number identification procedure.

The same item numbers are used for same part names on all units within a product type. (Example: The lip seal - Item L40 has the same item number on all motors.)

A part number that has another number following it in parentheses is done to make this a world wide manual. The first number is sold in Germany. The number in parentheses is sold in the United States. (Example: 515965 (9005110-5600), customers would order 9005110-5600 if ordering the part in the United States.)

#### **Example of a part identification**

The nameplate on a Series 90 motor has an Order Code of 90K042 NC 0 N 8 N 0 C4 N 00 NNN 00 00 00. Use the following procedures to determine the part number of the drive shaft used on this motor.

- 1) Referring to the shaft module in the Order Code (see page 7), the shaft option for this motor is identified by the code "C4". ( $90K042\ NC\ 0\ N\ 8\ N\ 0\ C4\ N\ 00\ NNN\ 00\ 00\ 00$ )
- 2) Referring to the Service Parts List, find the shaft group. Next find the order code that relates to this unit, which is "C4". The shaft is found to be item L100 and part number 755801.



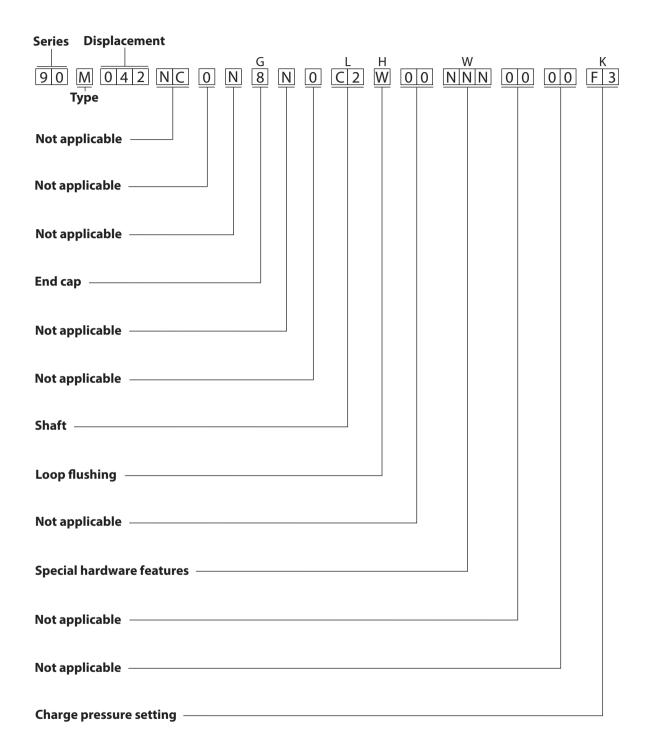






## (**6**)

#### Order code, fixed displacement motor



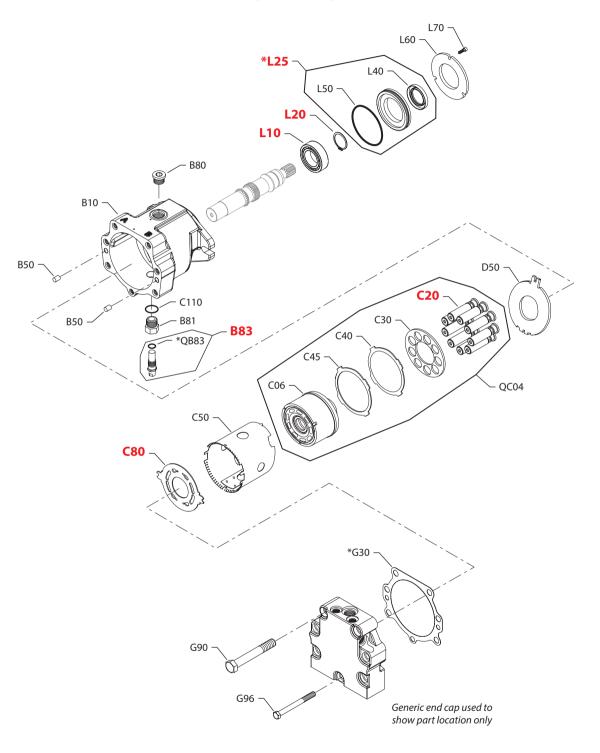
P108 710E



### General Parts

### **Fixed displacement motor**

### (EEA & EFA)



\* = included in overhaul seal kit Q210

E103 007E

Enlarged **bold** type item numbers are recommended parts to be stocked for servicing



### **Series 90 42 cc Axial Piston Motors**



### **Fixed displacement motor**

$c_{\alpha}$	mm	nn	nai	rtc
CU		1011	pai	LS

Order		Date	Date			Qty. per
Code	ltem	Begin	End	Part Number	Part Name	Model/Kit
	B10	92-40		11012088	Housing	1
	B50	92-40		9004800-3708	Pin	2
	B80	92-40		001537 (9005100-8700)	Plug assembly	1
	C20	92-40		706101	Piston assembly	9
	C30	92-40		11067347	Slipper guide	1
	C40	94-44		722090	Slipper guide retainer	1
	C45	92-40		505366	Slipper retainer guide shim	1
	C50	92-40		720599	Hold down tube	1
	C80	92-40		502186	Valve plate	1
	D50	92-40		505363	Thrust plate	1
	G30	92-40		723569	End cap gasket	1
	G90	92-40		348052	Screw	6
	G96	92-40		914044	Screw	1
	L10	92-40		11018483	Roller bearing	1
	L20	92-40		392134	Retaining ring	1
	L25	96-45		510541	Seal carrier assembly	1
	L40	96-45		510390	Lip seal	1
	L50	96-45		735084	O-ring	1
	L60	94-37		503267	Retainer plate (SB-1996-011)	1
	L70	92-40		672493 (9007210-0604)	Screw	3

#### **Special hardware**

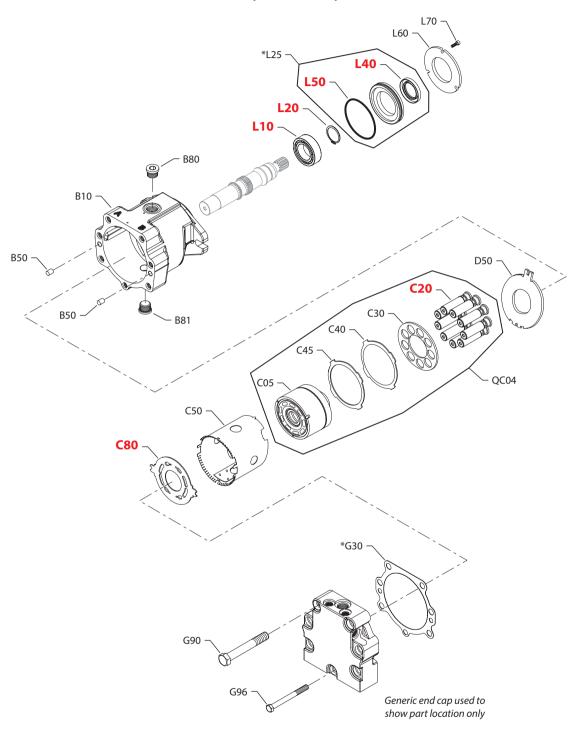
•					
EAA	B81	11-24	501516	Connector	1
	B83	11-24	KPPG12508	Speeds sensor	1
	C06	11-24	11094174	Cylinder block assembly with speed ring	1
	C110	11-24	001149 (9004201-6200)	O-ring	1
	QB83	11-24	9004201-3700	O-ring	1
	QC04	11-24	11134662	Cylindeer block kit with speed ring	1
EFA	B81	96-45	501516	Connector	1
	B83	96-45	KPPG156	Speeds sensor	1
	C06	96-45	11094174	Cylinder block assembly with speed ring	1
	C110	96-45	001149 (9004201-6200)	O-ring	1
	QB83	96-45	9004201-3700	O-ring	1
	QC04	96-45	11134662	Cylindeer block kit with speed ring	1



### General Parts

### **Fixed displacement motor**

### (JAA & NNN)



\* = included in overhaul seal kit Q210

E103 008E

Enlarged **bold** type item numbers are recommended parts to be stocked for servicing



### **Series 90 42 cc Axial Piston Motors**



### **Fixed displacement motor**

		parts	

Order		Date	Date			Qty. per
Code	ltem	Begin	End	Part Number	Part Name	Model/Kit
	B10	92-40		11012088	Housing	1
	B50	92-40		9004800-3708	Pin	2
	B80	92-40		001537 (9005100-8700)	Plug assembly	1
	C20	92-40		706101	Piston assembly	9
	C30	92-40		11067347	Slipper guide	1
	C40	94-44		722090	Slipper guide retainer	1
	C45	92-40		505366	Slipper retainer guide shim	1
	C50	92-40		720599	Hold down tube	1
	C80	92-40		502186	Valve plate	1
	D50	92-40		505363	Thrust plate	1
	G30	92-40		723569	End cap gasket	1
	G90	92-40		348052	Screw	6
	G96	92-40		914044	Screw	1
	L10	92-40		11018483	Roller bearing	1
	L20	92-40		392134	Retaining ring	1
	L25	96-45		510541	Seal carrier assembly	1
	L40	96-45		510390	Lip seal	1
	L50	96-45		735084	O-ring	1
	L60	94-37		503267	Retainer plate (SB-1996-011)	1
	L70	92-40		672493 (9007210-0604)	Screw	3

#### Special hardware

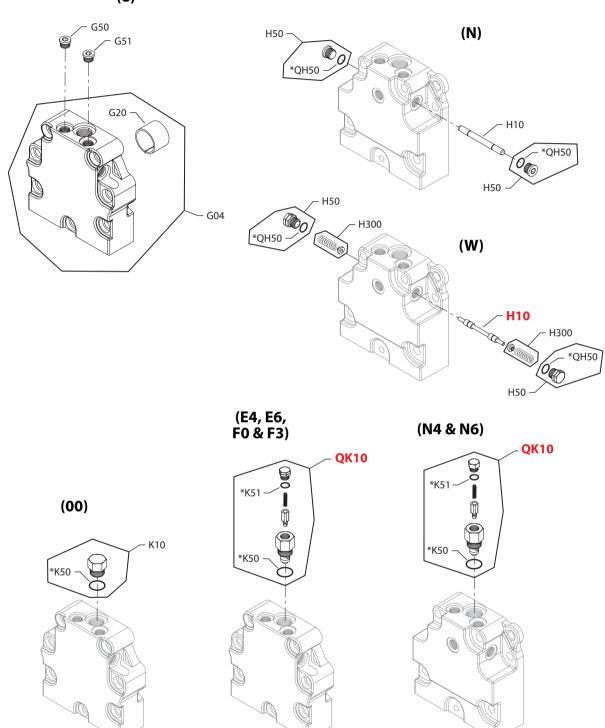
JAA	B81	92-40	001537 (9005100-8700)	Plug assembly	1
	C05	92-40	763920	Cylinder block assembly	1
	QC04	92-40	11134663	Cylinder block kit	1
NNN	B81	92-40	001537 (9005100-8700)	Plug assembly	1
	C05	92-40	763920	Cylinder block assembly	1
	QC04	92-40	11134663	Cylinder block kit	1



### Genzales Part

### **Fixed displacement motor**

(8)



\* = included in overhaul seal kit Q210

Enlarged **bold** type item numbers are recommended parts to be stocked for servicing

E103 009E



### **Series 90 42 cc Axial Piston Motors**



### **Fixed displacement motor**

QK10

K50

K51

92-40

92-40

92-40

11097072

001149 (9004201-6200)

085043 (9004201-3700)

N6

8         G04         92-40         724138         End cap assembly, twin ports           G20         92-40         343830         DU bushing           G50         92-40         140644         Plug assembly           G51         92-40         140644         Plug assembly           Loop flushing         N         H10         92-40         8800668         Loop flush spool, defeated           H50         92-40         140644         Plug assembly           QH50         92-40         085043 (9004201-3700)         O-ring           W         H10         92-40         365544 (8800550)         Loop flush spool           H50         92-40         518016         Plug assembly           H300         92-40         513596         Spring guide assembly           QH50         92-40         085043 (9004201-3700)         O-ring	Order		Date	Date			Qty. per
G20 92-40	Code	Item	Begin	End	Part Number	Part Name	Model/Kit
G50   92-40	8	G04	92-40		724138	End cap assembly, twin ports	1
N		G20	92-40		343830	DU bushing	1
N		G50	92-40		140644	Plug assembly	1
N   H10   92-40   8800668   Loop flush spool, defeated   H50   92-40   140644   Plug assembly   Plug assembl		G51	92-40		140644	Plug assembly	1
H50   92-40   140644   Plug assembly   OR5043 (9004201-3700)   O-ring	Loop flus	hing					
W   H10   92-40   365544 (8800550)   Loop flush spool	N	H10	92-40		8800668	Loop flush spool, defeated	1
W   H10   92-40   365544 (8800550)   Loop flush spool     H50   92-40   518016   Plug assembly     H300   92-40   513596   Spring guide assembly     QH50   92-40   085043 (9004201-3700)   O-ring     Charge pressure setting     00   K10   92-40   001537 (9005100-8700)   Plug assembly     K50   92-40   001149 (9004201-6200)   O-ring     E4   QK10   92-40   8510261   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     E5   QK10   92-40   8510252   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     E6   QK10   92-40   8510252   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     F0   QK10   92-40   8510259   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     F1   QK10   92-40   8510252   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     F3   QK10   92-40   8510262   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     F3   QK10   92-40   8510262   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     F3   QK10   92-40   8510262   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     N4   QK10   92-40   8510255   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring		H50	92-40		140644	Plug assembly	2
H50   92-40   518016   Plug assembly   Spring guide assembly   OH50   92-40   O85043 (9004201-3700)   O-ring   O-ring		QH50	92-40		085043 (9004201-3700)	O-ring	2
H50   92-40   518016   Plug assembly   Spring guide assembly   OH50   92-40   O85043 (9004201-3700)   O-ring   OF Ing   OF Ing	W	H10	92-40		365544 (8800550)	Loop flush spool	1
QH50   92-40   085043 (9004201-3700)   O-ring		H50	92-40		518016	-	2
QH50   92-40   085043 (9004201-3700)   O-ring		H300	92-40		513596	,	2
Charge pressure setting  00 K10 92-40 001537 (9005100-8700) Plug assembly  K50 92-40 001149 (9004201-6200) O-ring  E4 QK10 92-40 8510261 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  E6 QK10 92-40 8510252 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  F0 QK10 92-40 8510259 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-3700) O-ring  F0 QK10 92-40 8510259 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-3700) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  K51 92-40 085043 (9004201-3700) O-ring  Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  Charge pressure relief cartridge valve kit		QH50	92-40		085043 (9004201-3700)	O-ring	2
E4 QK10 92-40 8510261 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  E6 QK10 92-40 8510252 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  F0 QK10 92-40 8510259 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 001149 (9004201-6200) O-ring  K51 92-40 0010149 (9004201-6200) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-3700) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  N4 QK10 92-40 8510255 Charge pressure relief cartridge valve kit  K50 92-40 001149 (9004201-6200) O-ring					001537 (9005100-8700)	Plug assembly	1
K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           E6         QK10         92-40         8510252         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F0         QK10         92-40         8510259         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F3         QK10         92-40         8510262         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring		K50	92-40		001149 (9004201-6200)	O-ring	1
K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           E6         QK10         92-40         8510252         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F0         QK10         92-40         8510259         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F3         QK10         92-40         8510262         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring	E/I	OK10	02.40		9510261	Chargo proceuro relief cartridge valve kit	1
K51         92-40         085043 (9004201-3700)         O-ring           E6         QK10         92-40         8510252         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F0         QK10         92-40         8510259         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F3         QK10         92-40         8510262         Charge pressure relief cartridge valve kit           K50         92-40         085043 (9004201-6200)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring	E4						1
E6 QK10 92-40 8510252 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring K51 92-40 085043 (9004201-3700) O-ring  F0 QK10 92-40 8510259 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring K51 92-40 085043 (9004201-3700) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring K51 92-40 001149 (9004201-6200) O-ring  K51 92-40 085043 (9004201-3700) O-ring  N4 QK10 92-40 8510255 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring			-		I .	<u> </u>	1
K50   92-40   001149 (9004201-6200)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     F0   QK10   92-40   8510259   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     F3   QK10   92-40   8510262   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     N4   QK10   92-40   8510255   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring		I KJ I	92-40		083043 (9004201-3700)	O-mig	<u> </u>
K51   92-40   085043 (9004201-3700)   O-ring	E6	QK10	92-40		8510252	Charge pressure relief cartridge valve kit	1
F0 QK10 92-40 8510259 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring K51 92-40 085043 (9004201-3700) O-ring  F3 QK10 92-40 8510262 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring K51 92-40 085043 (9004201-3700) O-ring  N4 QK10 92-40 8510255 Charge pressure relief cartridge valve kit K50 92-40 001149 (9004201-6200) O-ring		K50	92-40		001149 (9004201-6200)	O-ring	1
K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           F3         QK10         92-40         8510262         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring		K51	92-40		085043 (9004201-3700)	O-ring	1
K50   92-40   001149 (9004201-6200)   O-ring   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     F3   QK10   92-40   8510262   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring     K51   92-40   085043 (9004201-3700)   O-ring     N4   QK10   92-40   8510255   Charge pressure relief cartridge valve kit     K50   92-40   001149 (9004201-6200)   O-ring	F0	OK10	92-40		8510259	Charge pressure relief cartridge valve kit	1
K51   92-40   085043 (9004201-3700)   O-ring							1
K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring			92-40			<u> </u>	1
K50         92-40         001149 (9004201-6200)         O-ring           K51         92-40         085043 (9004201-3700)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring	Eo	OK10	02.40		0510262	Charge proceure relief cartridge valve hit	1
K51         92-40         085043 (9004201-3700)         O-ring           N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring	Г3	1 -			*****		1
N4         QK10         92-40         8510255         Charge pressure relief cartridge valve kit           K50         92-40         001149 (9004201-6200)         O-ring					· ·	<u> </u>	
K50 92-40 001149 (9004201-6200) O-ring		1 (2)	92-40		000043 (9004201-3700)	O-ning	1
	N4	QK10	92-40		8510255	Charge pressure relief cartridge valve kit	1
K51 92-40 085043 (9004201-3700) O-ring		K50	92-40		001149 (9004201-6200)	O-ring	1
		K51	92-40		085043 (9004201-3700)	O-ring	1

Charge pressure relief cartridge valve kit

O-ring

O-ring

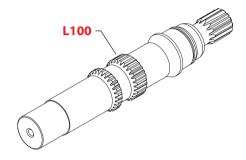
1

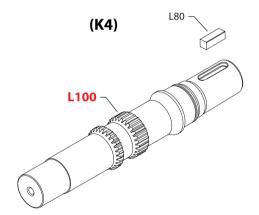




### **Fixed displacement motor**







E103 010E

Enlarged **bold** type item numbers are recommended parts to be stocked for servicing



### **Series 90 42 cc Axial Piston Motors**



### **Fixed displacement motor**

#### Shaft

Order		Date	Date			Qty. per
Code	Item	Begin	End	Part Number	Part Name	Model/Kit
C2	L100	92-40		723098	Shaft, 13 tooth spline	1
C3	L100	92-40		787127	Shaft, 15 tooth spline	1
K4	L100	92-40		770347	Shaft, straight key	1
	L80	92-40		057240	Key, 8 x 7 x 36mm	1
Overhaul	seal kit					
	Q210	92-40		11134051	Overhaul seal kit	1
	B12A	00-20		039297 (9004201-1200)	O-ring, .239 x .064, nitrile, 90D	1
	B15	92-40		729319	O-ring, 154.00 x 3.00mm, viton, 80D	1
	G30	92-40		723569	End cap gasket	1
	K50	99-24		001149 (9004201-6200)	O-ring, .755 x .097, nitrile, 90D	1
	K51	99-24		085043 (9004201-3700)	O-ring, .468 x .078, nitrile, 90D	1
	L25	96-45		510541	Seal carrier assembly	1
	QB83	96-45		085043 (9004201-3700)	O-ring, .468 x .078, nitrile, 90D	1
	QH50	92-40		085043 (9004201-3700)	O-ring, .468 x .078, nitrile, 90D	2

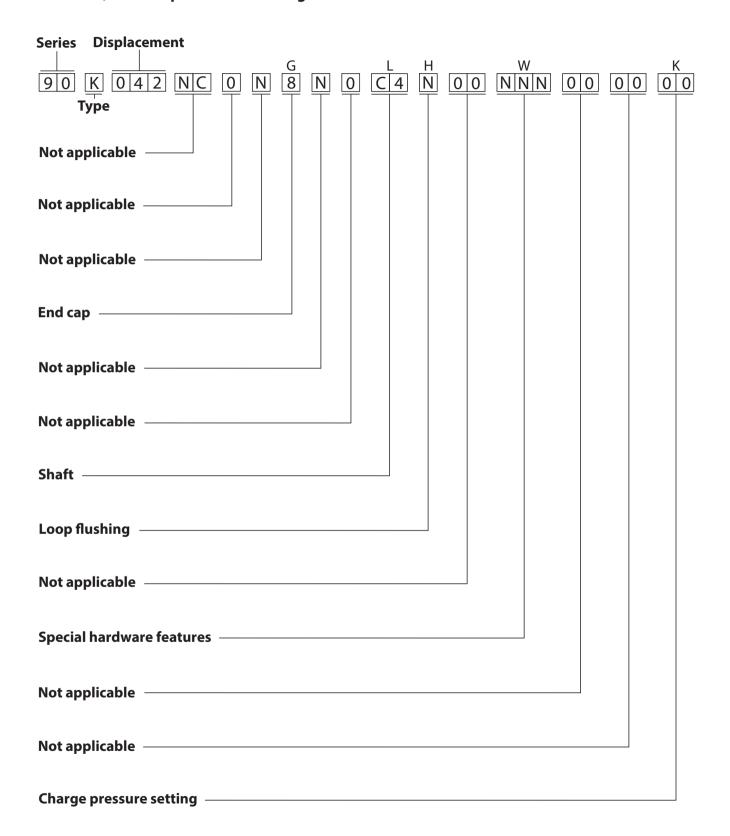








### Order code, fixed displacement cartridge motor

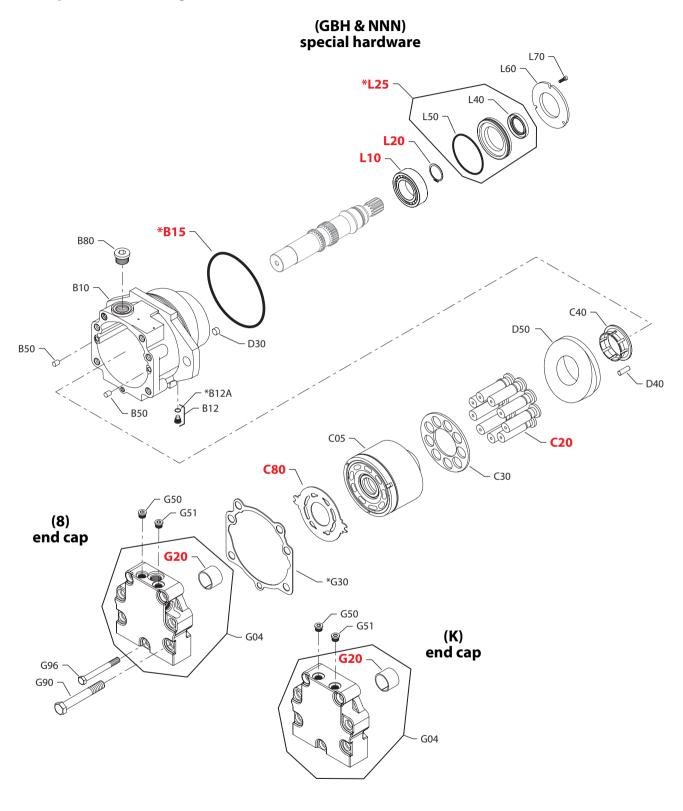


P100 685E



## Genzina Parts

### Fixed displacement cartidge motor



\* = included in overhaul seal kit Q210

Enlarged **bold** type item numbers are recommended parts to be stocked for servicing

E100 701E



### **Series 90 42 cc Axial Piston Motors**



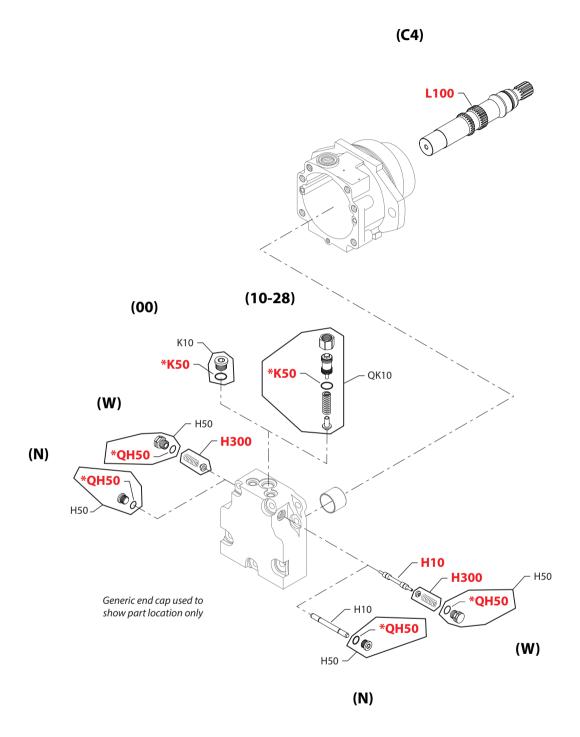
### Fixed displacement cartidge motor

Order		Date	Date			Qty. per
Code	ltem	Begin	End	Part Number	Part Name	Model/Kit
	B10	00-20		515995	Housing (SB-2000-038)	1
	B12	00-20		515997	Screw assembly (SB-2000-038)	1
	B12A	00-20		039297 (9004201-1200)	O-ring	1
	B15	92-40		729319	O-ring	1
	B50	92-40		9004800-3708	Pin	2
	B80	92-40		001537 (9005100-8700)	Plug assembly	1
	C05	92-40		763920	Cylinder block assembly	1
	C20	92-40		706101	Piston assembly	9
	C30	92-40		763805	Slipper guide	1
	C40	94-44		504758	Slipper guide retainer (SB-1996-003)	1
	C80	92-40		502186	Valve plate	1
	D30	00-32		516389	Expandsion plug	1
	D40	92-40		707877	Pin	1
	D50	92-40		515996	Swashplate (SB-2000-038)	1
	G30	92-40		723569	End cap gasket	1
	G90	92-40		348052	Screw	6
	G96	92-40		914044	Screw	1
	L10	92-40		11018483	Roller bearing	1
	L20	92-40		392134	Retaining ring	1
	L60	94-37		503267	Retainer plate (SB-1996-011)	1
	L70	92-40		672493 (9007210-0604)	Screw	3
necial h	ardware					
GBH	L25	96-45		510541	Seal carrier assembly	1
0011	L40	96-45		510390	Lip seal	1
	L50	96-45		735084	O-ring	1
		70 .5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•
NNN	L25	94-37		510541	Seal carrier assembly (SB-1996-011)	1
	L40	94-37		510390	Lip seal	1
	L50	94-37		735084	O-ring	1
					. 3	
nd cap						
8	G04	92-40		724138	End cap assembly, twin ports	1
	G20	92-40		343830	DU bushing	1
	G50	92-40		140644	Plug assembly	1
	G51	92-40		140644	Plug assembly	1
K	G04	92-40		505163	End cap assembly, twin ports, metric	1
	G20	92-40		343830	DU bushing	1
	G50	92-40		140644	Plug assembly	1
	G51	92-40		140644	Plug assembly	1



## Genzina Parts

### Fixed displacement cartidge motor



\* = included in overhaul seal kit Q210

E100 702E

Enlarged bold type item numbers are recommended parts to be stocked for servicing



QH50

92-40

### **Series 90 42 cc Axial Piston Motors**



### Fixed displacement cartidge motor

Order		Date	Date			Qty. per
Code	Item	Begin	End	Part Number	Part Name	Model/Kit
N	H10	92-40		8800668	Loop flush spool, defeated	1
	H50	92-40		140644	Plug assembly	2
	QH50	92-40		085043 (9004201-3700)	O-ring	2
W	H10	92-40		365544 (8800550)	Loop flush spool	1
	H50	92-40		518016	Plug assembly	2
	H300	92-40		513596	Spring guide assembly	2
	QH50	92-40		085043 (9004201-3700)	O-ring	2
harge p	ressure s K10	92-40		001537 (9005100-8700)	Plug assembly	1
10-28	QK10	92-40	98-11	8510012	Charge pressure relief valve kit	1
	K50	92-40	98-11	001149 (9004201-6200)	O-ring	1
haft						
C4	L100	92-40		755801	Shaft, 15 tooth spline	1
verhau	l seal kit					
	Q210	92-40		11134051	Overhaul seal kit	1
	B12A	00-20		039297 (9004201-1200)	O-ring, .239 x .064, nitrile, 90D	1
	B15	92-40		729319	O-ring, 154.00 x 3.00mm, viton, 80D	1
	G30	92-40		723569	End cap gasket	1
	K50	99-24		001149 (9004201-6200)	O-ring, .755 x .097, nitrile, 90D	1
	K51	99-24		085043 (9004201-3700)	O-ring, .468 x .078, nitrile, 90D	1
	L25	96-45		510541	Seal carrier assembly	1

O-ring, .468 x .078, nitrile, 90D

085043 (9004201-3700)



#### Parts Manual Series 90 42 cc Axial Piston Motors

Service bulletin: SB-1996-003

**Products affected** Series 90 42 cc fixed cartridge motor

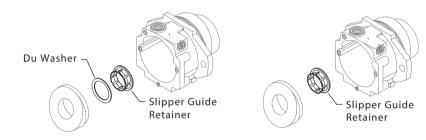
**Subject** Slipper guide retainer change

**Description** Danfoss has changed the design of the slipper guide retainer from a two piece retainer to a one piece

retainer. The old design consisted of a DU washer and the slipper guide retainer. The new design

eliminates the DU washer.

The old style retainer guide and DU washer will be obsoleted and will not be available as a service part. If either of the old style parts need to be replaced during repair, a new style slipper guide retainer must be used.



#### **OLD DESIGN**

#### **NEW DESIGN**

**Models affected** All series 90 42 cc fixed displacement cartridge motors (90K042).

**Serial numbers** This change became effective at serial number N-94-44-xxxxx.

Part numbers affected

Description	Old p/n	New p/n
DU washer	685008	N/A
Retainer	684993	504758

**Parts disposition** 

Interchangeable - only if a new style one piece retainer is used



### Parts Manual Series 90 42 cc Axial Piston Motors

Service bulletin: SB-1996-011

**Products affected** Series 90 42 cc fixed cartridge motor

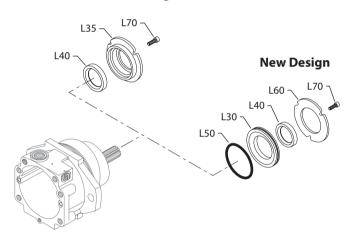
**Subject** Shaft seal retainer design

**Description**As a product improvement, Danfoss has changed the one piece shaft retainer to a two piece design.

This change will provide a common configuration for the seal retainer among all series 90 units.

The two piece seal retainer is interchangeable only if both the seal carrier (L30) and the retainer plate L60) are installed. The shaft lip seal (L40), O-ring (L50), and screws (L70) do not change. The old seal carrier (L35) will be obsoleted and no longer available as a service part.

#### **Previous Design**



**Models affected** All series 90 42 cc fixed displacement cartridge motors (90K042).

**Serial numbers** This change became effective at serial number N-94-37-xxxxx

Part numbers affected

		Old part number	New part number
Item	Description	(Prior to 94-37)	(94-37 and up)
L35	Seal carrier/retainer	723510	Not used
L30	Seal carrier	Not used	503270
L60	Retainer plate	Not used	503267

Parts disposition Interchangeable (as an assembly)



#### Parts Manual Series 90 42 cc Axial Piston Motors

Genzalva Parts

Service bulletin: SB-2000-038

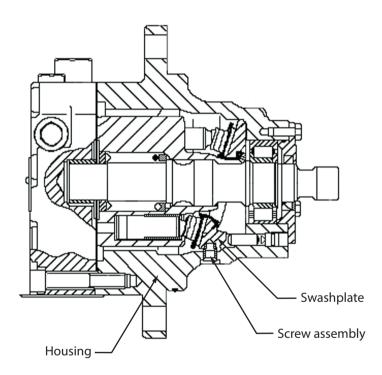
**Products affected** Series 90 42 cc fixed cartridge motor

**Subject** New housing and swashplate

**Description**As a product improvement, Danfoss has changed the design of the series 90 42 cc fixed displacement cartridge motor housing and swashplate. The new design adds a screw through the housing that

retains the swashplate axially.

To track this change, Danfoss has issued new part numbers for the housing, swashplate, and screw assembly. The swashplate is an interchangeable change: however, if the housing must be replaced, a new swashplate and screw assembly is required. The old part are obsolete and no longer available as service parts.



**Models affected** 93-3xxx and 933xxxx cartridge type motors

**Serial numbers** This change became effective at serial number N-00-20-xxxxx

Part numbers affected

Description	Old part number	New part number
Housing	754960	515995
Swashplate	500956	515996
Screw assembly	N/A	515997

**Parts disposition** Interchangeable - only the swashplate is interchangeable



### **Series 90 42 cc Axial Piston Motors**



**Notes** 





**Series 90 42 cc Axial Piston Motors** Notes







**Notes** 



#### **Products we offer:**

- Bent Axis Motors
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