

ENGINEERING
TOMORROW

Danfoss

Count on availability when you need it most **Series 45 Rapid Delivery Center**

Faster

time to market

Danfoss RDCs
ensure you have the
product you want,
when you want it



Shorten your design cycle with lead times to bring you what you want when you want it

Danfoss Rapid Delivery Centers (RDCs) enable OEMs to bring machines to market faster.

Series 45 Open Circuit Hydraulic Pumps

Danfoss RDCs featuring Series 45 open circuit hydraulic pumps offer up to 54,000 combinations of pump configurations bringing the versatility you need when designing your vehicles on a schedule.

Your RDC is an authorized assembly and warranty center, and is held to very strict quality standards. All Series 45 pumps from your distributor have been hydraulically tested.

Series 45 – Meeting you needs

- Efficiency and performance are optimized using the latest computer aided design tools in conjunction with unrivaled piston pump engineering experience
- Designed for the rugged environments of mobile machinery
- Through-drive capability for multi-circuit systems
- Range of mounting flanges, shafts and porting options for ease of installation
- Wide range of controls available
- Response rate can be customized with integrated choke and gain orifices
- Robust shaft bearings to handle large external shaft loads
- Single piece rigid housing to reduce noise and leak paths
- All pumps are standard with Viton shaft seals
- Your RDC is an authorized assembly and warranty center and is held to very strict quality standards

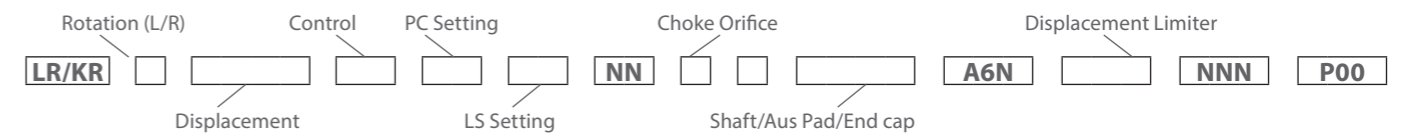
Local inventories include:

- 25 cm³
- 30 cm³
- 38 cm³
- 45 cm³

Many more custom configurations are available at standard lead-time



Series 45 configurations at your local RDC L/K-Frame



Displacement

- 25 25 cm³ (1.53 CIR)
- 30 30 cm³ (1.83 CIR)
- 38 38 cm³ (2.32 CIR)
- 45 45 cm³ (2.75 CIR)

Control

- LS PC/LS
- PC PC only
- RP LS/Remote PC
- EM 12 volt fan drive control
- EN 24 volt fan drive control

Pressure Comp. Setting

100 bar - 260 bar in 10 bar increments

Load Sense setting

10 bar - 36 bar and 40 bar
Specify in 1 bar increments
NN No load sense

Choke Orifice

- N None
- J 0.8 mm
- K 1.0 mm

Displacement Limiter

- PLB None (plugged)
- AAA Adjustable, set at max

Shaft/Aux pad/End cap

Code	Input Shaft	Through Drive	Port Location	Displacement Limiter
C2RG	13T Shaft	Running Cover	Radial	yes
C2AG	13T Shaft	SAE-A 9T	Radial	yes
C2BG	13T Shaft	SAE-B 13T	Radial	yes
C2TG	13T Shaft	SAE-A 11T	Radial	no
C2NF	13T Shaft	NA	Axial	yes

SAE B, 2 Bolt mounting flange

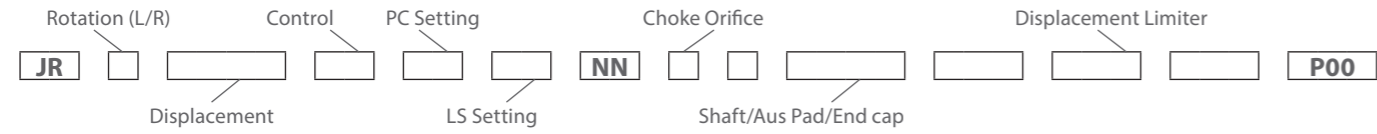
All K and L frame pumps have SAE ORB connections, -16 outlet, -24 inlet

Examples:

- PC setting 15 = 150 bar,
- LS Setting 15 = 15 bar

Series 45 configurations at your local RDC

J-Frame



Displacement

45	45 cm ³ (2.75 CIR)
51	51 cm ³ (3.11 CIR)
60	60 cm ³ (3.66 CIR)
65	65 cm ³ (3.97 CIR)
75	75 cm ³ (4.58 CIR)

Pressure Comp. Setting

100 bar - 260 bar in 10 bar increments

Load Sense setting

10 – 40 bar
Specify in 1 bar increments
NN No load sense

Choke Orifice

N None

Displacement Limiter

PLB None (plugged)
FFF Adjustable, set at max

Control

LS	PC/LS
PC	PC Only
RP	LS/Remote PC
AK	24 Volt Fan Drive Control/Right
AV	12 Volt Fan Drive Control/Right
AL	24 Volt Fan Drive Control/Left
AH	12 Volt Fan Drive Control/Left
TA	12 Volt Fan Drive Control/Left
TB	24 Volt Fan Drive Control/Left
TE	12 Volt Fan Drive Control/Right
TF	24 Volt Fan Drive Control/Right

Shaft/Aux pad/End cap

Code	Input Shaft	Through Drive	Port Location	Displacement Limiter
C3NZ	15 T Shaft	N/A	Axial	Yes
C3RF	15 T Shaft	Running Cover	Radial	Yes
S1NZ	14 T Shaft	N/A	Axial	Yes
S1RF	14 T Shaft	Running Cover	Radial	Yes
C2NZ	13 T Shaft	N/A	Axial	Yes

SAE B, 2 Bolt mounting flange and SAE C 4 Bolt mounting flange

All J-Frame pumps have Code 61 Spilt Flange inlet and outlet

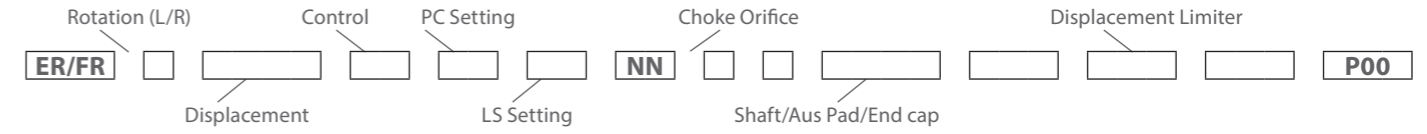
Angle sensor available on select pumps, ANS special feature option

Aux Mounting kits:

- SAE-A 9T
- SAE-A 11T
- SAE-B 13T
- SAE-C 14

Series 45 configurations at your local RDC

E/F-Frame



Displacement

74	74 cm ³ (4.52 CIR)
90	90 cm ³ (5.49 CIR)
100	100 cm ³ (6.10 CIR)
130	130 cm ³ (7.93 CIR)
147	147 cm ³ (8.97 CIR)

Pressure Comp. Setting

100 bar – 310 bar in 10 bar increments

Load Sense setting

10 – 40 bar
Specify in 1 bar increments
NN No load sense

Choke Orifice

N None

Displacement Limiter

NNN None (plugged)
AAA Adjustable, set to max flow

Control

LS	PC/LS
PC	PC Only
RP	LS/Remote PC
AK	24 Volt Fan Drive Control/Right
AV	12 Volt Fan Drive Control/Right
AL	24 Volt Fan Drive Control/Left
AH	12 Volt Fan Drive Control/Left
TA	12 Volt Fan Drive Control/Left
TB	24 Volt Fan Drive Control/Left
TE	12 Volt Fan Drive Control/Right
TF	24 Volt Fan Drive Control/Right

E-Frame Shaft/Aux pad/End cap

Code	Input Shaft	Through Drive	Port Location	Displacement Limiter
S1NL	14T Shaft	N/A	Axial	Yes
S1RP	14T Shaft	Running cover	Radial	Yes

All E-Frame pumps have Code 61 Spilt Flange inlet and outlet

Angle sensor available on select pumps, ANS special feature option

Aux Mounting kits:

- SAE-B 13T
- SAE-C 14T

F-Frame Shaft/Aux pad/End cap

Code	Input Shaft	Through Drive	Port Location	Displacement Limiter
SIN4	14T Shaft	N/A	Axial	Yes
SIR2	14T Shaft	Running Cover	Radial	Yes

All F-Frame pumps have Code 61 Spilt Flange inlet and outlet

Angle sensor available on select pumps, ANS special feature option

Aux Mounting kits:

- SAE-A 9T
- SAE-A 11T
- SAE-B 13T
- SAE-C 14T

Contact your local RDC center today for more information on getting the products you need when you need them

Availability is subject to prior sale and is limited to quantities suitable for prototype and unplanned production orders for new customers. Normal production quantities can be accommodated by your RDC distributor by establishing an inventory program specifically for your production needs. While many combinations of products will be available within a few days, some combinations and quantities will be subject to standard lead-time. Please inquire with your RDC for current availability.

Your Danfoss technical distributor will help with your selection. Please see Danfoss publication 520L0519 for details and definitions of the included nomenclature options.

Danfoss Power Solutions reserves the right to make program changes at anytime without notice. Quantities in excess of those available from the RDC will be acknowledged at standard lead-time.



About Danfoss Power Solutions

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of off-highway vehicles. We help OEMs around the world speed up system development, reduce costs and bring vehicles to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics.

Products we offer:

- Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles
- Microcontrollers and Software
- Open Circuit Axial Piston Pumps
- Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- Transit Mixer Drives

Wherever off-highway vehicles are at work, so is Danfoss Power Solutions. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to www.powersolutions.danfoss.com for further product information.

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