Technical Information
Series 45
G Frame

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Technical Information Series 45 G Frame Pumps

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This information was removed from:

*Series 45 Axial Piston Open Circuit Pumps Technical Information Manual 520L0519*
Rev E November 2006

For more information regarding the Series 45 product line refer to the current version of 520L0519.
Design

Series 45 Frame G pumps have a dual servo piston design with a cradle-type swashplate set in polymer-coated journal bearings. The bias piston increases swashplate angle. The displacement piston decreases swashplate angle. At equal pressure, the larger diameter displacement piston overpowers the bias piston. Nine reciprocating pistons displace fluid from the pump inlet to the pump outlet as the cylinder block rotates on the pump input shaft. The block spring holds the piston slippers to the swashplate via the slipper retainer. The cylinder block rides on a bi-metal valve plate optimized for high volumetric efficiency and low noise. Tapered roller bearings support the input shaft and a viton lip-seal protects against shaft leaks.

An adjustable one spool (PC only, not shown) or two spool (LS) control senses system pressure and load pressure (LS controls). The control ports system pressure to the displacement piston to control pump output flow.

Frame G cross section
Specifications

For general operating parameters, including fluid viscosity, temperature, and inlet and case pressures, see page 13. For system design parameters, including installation, filtration, reservoir, and line velocities, see page 15.

Features and options

<table>
<thead>
<tr>
<th>Feature</th>
<th>Unit</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at rated speed (theoretical)</td>
<td>l/min [US gal/min]</td>
<td>177.6 [46.9]</td>
<td>198 [52.3]</td>
</tr>
<tr>
<td>Input torque at maximum displacement</td>
<td>N•m/bar [lbf•in/1000 psi]</td>
<td>1.178 [719]</td>
<td>1.432 [874]</td>
</tr>
<tr>
<td>Mass moment of inertia of internal</td>
<td>kg•m² [slug•ft²]</td>
<td>0.00630 [0.00465]</td>
<td>0.00650 [0.00480]</td>
</tr>
<tr>
<td>rotating components</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Axial ports kg [lb]</td>
<td>29 [63]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Radial ports</td>
<td>36 [80]</td>
<td></td>
</tr>
<tr>
<td>Rotation</td>
<td></td>
<td>Clockwise, Counterclockwise</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td></td>
<td>SAE-C</td>
<td></td>
</tr>
<tr>
<td>Auxiliary mounting</td>
<td></td>
<td>SAE-A, SAE-B, SAE-BB, SAE-C</td>
<td></td>
</tr>
<tr>
<td>System ports (type)</td>
<td></td>
<td>4-bolt split flange</td>
<td></td>
</tr>
<tr>
<td>System ports (location)</td>
<td></td>
<td>Axial, Radial</td>
<td></td>
</tr>
<tr>
<td>Control types</td>
<td></td>
<td>PC, Remote PC, LS, LS with internal bleed</td>
<td></td>
</tr>
<tr>
<td>Shafts (See page 73)</td>
<td></td>
<td>Splined</td>
<td>14 tooth, 17 tooth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight</td>
<td>Ø 31.75 mm [1.25 in]</td>
</tr>
<tr>
<td>Displacement limiters (See page 75)</td>
<td></td>
<td>Optional, adjustable</td>
<td></td>
</tr>
</tbody>
</table>

Ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Units</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input speed¹</td>
<td>min⁻¹ (rpm)</td>
<td>G74B 500</td>
<td>G90C 500</td>
</tr>
<tr>
<td>continuous</td>
<td></td>
<td>2400</td>
<td>2200</td>
</tr>
<tr>
<td>maximum</td>
<td></td>
<td>2800</td>
<td>2600</td>
</tr>
<tr>
<td>Working pressure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>continuous</td>
<td>bar [psi]</td>
<td>310 [4495]</td>
<td>260 [3770]</td>
</tr>
<tr>
<td>maximum</td>
<td></td>
<td>400 [5800]</td>
<td>350 [5075]</td>
</tr>
<tr>
<td>External shaft loads</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External moment (M_e)</td>
<td>N-m [lbf-in]</td>
<td>300 [2655]</td>
<td></td>
</tr>
<tr>
<td>Thrust in (T_out, T_in)</td>
<td>N [lbf]</td>
<td>2900 [650]</td>
<td></td>
</tr>
<tr>
<td>Bearing life</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 140 bar [2030 psi]</td>
<td>B_10 hours</td>
<td>41 383</td>
<td>19 847</td>
</tr>
<tr>
<td>at 210 bar [3045 psi]</td>
<td></td>
<td>9048</td>
<td>4339</td>
</tr>
<tr>
<td>at 260 bar [3770 psi]</td>
<td></td>
<td>4062</td>
<td>1948</td>
</tr>
<tr>
<td>at 310 bar [4495 psi]</td>
<td></td>
<td>2101</td>
<td>—</td>
</tr>
<tr>
<td>Mounting flange load moments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibratory (continuous)</td>
<td>N-m [lbf-in]</td>
<td>1580 [14 000]</td>
<td></td>
</tr>
<tr>
<td>Shock (max)</td>
<td></td>
<td>5650 [50 000]</td>
<td></td>
</tr>
</tbody>
</table>

1. Input speeds are valid at 1 bar absolute [0 in Hg vac] inlet pressure. See inlet pressure vs. speed charts.

Sound levels²

<table>
<thead>
<tr>
<th>dB(A)</th>
<th>210 bar [3045 psi]</th>
<th>260 bar [3770 psi]</th>
<th>310 bar [4495 psi]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>1800 min⁻¹(rpm)</td>
<td>1800 min⁻¹(rpm)</td>
<td>1800 min⁻¹(rpm)</td>
</tr>
<tr>
<td>G74B</td>
<td>75 78</td>
<td>74 76</td>
<td>75 77</td>
</tr>
<tr>
<td>C90C</td>
<td>74 76</td>
<td>75 77</td>
<td>—</td>
</tr>
</tbody>
</table>

2. Sound data was collected in a semi-anechoic chamber. Values have been adjusted (-3 dB) to reflect anechoic levels.
Performance G74B

Flow and power data valid at 49°C [120°F] and viscosity of 17.8 mm²/sec [88 SUS].

The chart on the right shows allowable inlet pressure and speed at various displacements. Greater speeds and lower inlet pressures are possible at reduced displacement. Operating outside of acceptable limits reduces pump life.
Flow and power data valid at 49°C [120°F] and viscosity of 17.8 mm²/sec [88 SUS].

The chart on the right shows allowable inlet pressure and speed at various displacements. Greater speeds and lower inlet pressures are possible at reduced displacement. Operating outside of acceptable limits reduces pump life.
## Technical Information Series 45 G Frame Pumps

### Order Code

<table>
<thead>
<tr>
<th>R</th>
<th>S</th>
<th>P</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>J</td>
<td>K</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**R**  
**Product**
- **GR** G Frame, variable displacement open circuit pump

**S**  
**Rotation**
- **L** Left hand (counterclockwise)
- **R** Right hand (clockwise)

**P**  
**Displacement and pressure rating**
- **074B** 074 cm³/rev [4.52 in³/rev], 310 bar [4495 psi] continuous working pressure
- **090C** 090 cm³/rev [5.49 in³/rev], 260 bar [3770 psi] continuous working pressure

**C**  
**Control type**
- **PC** Pressure compensated control 100-280 bar [1450-4060 psi]
- **BC** Pressure compensated control 290-310 bar [4205-4495 psi]
- **RP** Remote pressure compensated control 100-280 bar [1450-4060 psi]
- **BP** Remote pressure compensated control 290-310 bar [4205-4495 psi]
- **LS** Load sensing / pressure compensating control 100-280 bar [1450-4060 psi]
- **BS** Load sensing / pressure compensating control 290-310 bar [4205-4495 psi]
- **LB** Load sensing / pressure compensating control with internal bleed orifice 100-280 bar [1450-4060 psi]
- **BB** Load sensing / pressure compensating control with internal bleed orifice 290-310 bar [4205-4495 psi]

**D**  
**PC setting (2 digit code, 10 bar increments)**
- Example: 10 = 100 bar
- 10–31 100 to 310 bar [1450 to 4495 psi] (074B)
- 10–26 100 to 260 bar [1450 to 3770 psi] (090C)

**E**  
**Load sensing setting (2 digit code, 1 bar increments)**
- Example: 20 = 20 bar
- 10–30 10 to 40 bar [145 to 435 psi]
- NN Not applicable (use with PC controls)

**F**  
**Not used**
- NN Not applicable
## Technical Information Series 45 G Frame Pumps

### Order Code (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Location</th>
<th>Port type</th>
<th>Inlet size</th>
<th>Outlet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Radial</td>
<td>4-bolt split-flange</td>
<td>2 in.</td>
<td>1 in.</td>
</tr>
<tr>
<td>4</td>
<td>Axial</td>
<td>4-bolt split-flange</td>
<td>2 in.</td>
<td>1 in.</td>
</tr>
</tbody>
</table>

### G  
*Pilot orifice*
- N: Standard

### H  
*Gain orifice*
- 3: Standard

### J1  
*Input shaft*
- S1: 14 tooth, 12/24 pitch (ANSI B92.1 1970 - Class 5)
- S2: 17 tooth, 12/24 pitch (ANSI B92.1 1970 - Class 5)
- K4: Ø 31.75 mm [1.25 in], straight keyed

### J2  
*Auxiliary mounting flange*
- N: None
- A: SAE-A, 9-tooth coupling
- T: SAE-A, 11-tooth coupling
- B: SAE-B, 13-tooth coupling
- V: SAE-BB, 15-tooth coupling
- C: SAE-C, 14-tooth coupling

### J3  
*System port size and location*
- 2: Radial, 4-bolt split-flange, 2 in. inlet, 1 in. outlet
- 4: Axial, 4-bolt split-flange, 2 in. inlet, 1 in. outlet

### K1  
*Shaft seal*
- A: Single lip seal, viton

### K2  
*Mounting flange and housing port style*
- 1: SAE-C 4-bolt, SAE O-ring boss housing ports

### K3  
*Not used*
- N: Not applicable

### L  
*Displacement limiter*
- NNN: None
- AAA: Adjustable, factory set at max angle (074B)
- CAA: Adjustable, factory set at max angle (090C)

### M  
*Special hardware*
- NNN: None

### N  
*Special features*
- NNN: None
**Technical Information**  
**Series 45 G Frame Pumps**

**Controls**

**Pressure compensated control (PC)**

*PC control setting range*

<table>
<thead>
<tr>
<th>Model</th>
<th>bar</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>100–310</td>
<td>1450–4495</td>
</tr>
<tr>
<td>G90C</td>
<td>100–260</td>
<td>1450–3770</td>
</tr>
</tbody>
</table>

*Response/recovery times* *

<table>
<thead>
<tr>
<th>(ms)</th>
<th>Response</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>35</td>
<td>130</td>
</tr>
<tr>
<td>G90C</td>
<td>40</td>
<td>140</td>
</tr>
</tbody>
</table>

*For definitions, see page 9.

**Schematic diagram**

**PC schematic**

**Remote PC control (RP)**

*PC control setting range*

<table>
<thead>
<tr>
<th>Model</th>
<th>bar</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>100–310</td>
<td>1450–4495</td>
</tr>
<tr>
<td>G90C</td>
<td>100–260</td>
<td>1450–3770</td>
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</table>

*Response/recovery times* *

<table>
<thead>
<tr>
<th>(ms)</th>
<th>Response</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>35</td>
<td>130</td>
</tr>
<tr>
<td>G90C</td>
<td>40</td>
<td>140</td>
</tr>
</tbody>
</table>

*For definitions, see page 10.

**Schematic diagram**

**Remote PC schematic**

**Legend**

- B = Outlet
- S = Inlet
- L1, L2 = Case drain
- M2 = System pressure gauge port
- M4 = Servo pressure gauge port
- X = Remote PC port
Controls (continued)

Load sensing control (LS)

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>bar</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>100–310</td>
<td>1450–4495</td>
</tr>
<tr>
<td>G90C</td>
<td>100–260</td>
<td>1450–3770</td>
</tr>
</tbody>
</table>

Response/recovery times*

<table>
<thead>
<tr>
<th>Model</th>
<th>Response (ms)</th>
<th>Recovery (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>35</td>
<td>100</td>
</tr>
<tr>
<td>G90C</td>
<td>40</td>
<td>130</td>
</tr>
</tbody>
</table>

* For definitions, see page 11

Schematic diagram

LS Schematic

Legend

B = Outlet  
S = Inlet  
L1, L2 = Case drain  
M2 = System pressure gauge port  
M4 = Servo pressure gauge port  
X = LS signal port

Load sensing control with internal bleed orifice (LB)

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>bar</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>100–310</td>
<td>1450–4495</td>
</tr>
<tr>
<td>G90C</td>
<td>100–260</td>
<td>1450–3770</td>
</tr>
</tbody>
</table>

Response/recovery times*

<table>
<thead>
<tr>
<th>Model</th>
<th>Response (ms)</th>
<th>Recovery (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>35</td>
<td>100</td>
</tr>
<tr>
<td>G90C</td>
<td>40</td>
<td>130</td>
</tr>
</tbody>
</table>

* For definitions, see page 11

Schematic diagram

LB Schematic

Legend

B = Outlet  
S = Inlet  
L1, L2 = Case drain  
M2 = System pressure gauge port  
M4 = Servo pressure gauge port  
X = LS signal port
### Input Shafts

#### Shaft data

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Maximum torque rating¹  N-m [lbf•in]</th>
<th>Drawing</th>
</tr>
</thead>
</table>
| S1   | 14 tooth spline  
12/24 pitch  
(ANSI B92.1 1970 - Class 5) | 734 [6500] | ![S1 Shaft Diagram](image_url) |
| S2   | 17 tooth spline  
12/24 pitch  
(ANSI B92.1 1970 - Class 5) | 1017 [9000] | ![S2 Shaft Diagram](image_url) |
| K4   | Ø 31.75 mm [1.25 in]  
Straight keyed | 734 [6495] | ![K4 Shaft Diagram](image_url) |

---

1. See *Input shaft torque ratings*, page 18 for an explanation of maximum torque.
### Auxiliary Mounting Pads

#### SAE-A auxiliary mounting pad

**Dimensions**

See page 18 for mating pump pilot and spline dimensions.

**Specifications**

<table>
<thead>
<tr>
<th>Coupling</th>
<th>9-tooth</th>
<th>11-tooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spline minimum engagement</td>
<td>13.5 mm [0.53 in]</td>
<td>15 mm [0.59 in]</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>107 N-m [950 lbf-in]</td>
<td>147 N-m [1300 lbf-in]</td>
</tr>
<tr>
<td>Dimension A</td>
<td>21.1 mm [0.83 in]</td>
<td>16.1 mm [0.63 in]</td>
</tr>
</tbody>
</table>

### SAE-B auxiliary mounting pad

**Dimensions**

See page 18 for mating pump pilot and spline dimensions.

**Specifications**

<table>
<thead>
<tr>
<th>Coupling</th>
<th>13-tooth</th>
<th>15-tooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spline minimum engagement</td>
<td>14.2 mm [0.56 in]</td>
<td>18.9 mm [0.74 in]</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>249 N-m [2200 lbf-in]</td>
<td>339 N-m [3000 lbf-in]</td>
</tr>
<tr>
<td>Dimension A</td>
<td>20.7 mm [0.81 in]</td>
<td>12.7 mm [0.5 in]</td>
</tr>
</tbody>
</table>
Auxiliary Mounting Pads (continued)

Displacement limiter

G Frame open circuit pumps are available with an optional adjustable displacement limiter. This adjustable stop limits the pump’s maximum displacement.

Setting range

<table>
<thead>
<tr>
<th>Model</th>
<th>Displacement Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>G74B</td>
<td>56 to 74 cm³ [3.39 to 4.52 in³]</td>
</tr>
<tr>
<td>G90C</td>
<td>68 to 90 cm³ [4.12 to 5.49 in³]</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Coupling</th>
<th>14-tooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spline minimum engagement</td>
<td>18.3 mm [0.72 in]</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>339 N•m [3000 lbf•in]</td>
</tr>
</tbody>
</table>

1. See Input shaft torque ratings, page 19 for definitions of continuous and maximum torque.
Installation Drawings

Running cover

Dimensions

Adjustable displacement limiter

Dimensions

Approximate center of gravity

Mounting flange

P106-079E

P104-073E
Installation Drawings (continued)

Axial ported endcap

Clockwise rotation

Counterclockwise rotation

LS signal Port X alternate

Diameter (mm [in])

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System port S (Inlet port)</td>
<td>77.77 [3.062]</td>
</tr>
<tr>
<td>Split flange boss Per ISO 6162 SAE J1926 (CODE 61) with 1/2-13 UNC x 27 (0.866) Min THD</td>
<td>42.88 [1.688]</td>
</tr>
<tr>
<td>System port B (Outlet port)</td>
<td>26.19 [1.031]</td>
</tr>
<tr>
<td>Split flange boss Per ISO 6162 SAE J1926 (CODE 61) with 3/8-16 UNC x 27 (0.866) Min THD</td>
<td>40 [1.57]</td>
</tr>
</tbody>
</table>

Case drain port L1
Per ISO 11926-1 SAE J1926/1 7/8 - 14

Case drain port L2
Per ISO 11926-1 SAE J1926/1 7/8 - 14

LS signal Port X

LS signal Port T X

System pressure gage port M2
Per ISO 11926-1 SAE J1926/1 7/16 - 20 UNF

System pressure gage port M2
Per ISO 11926-1 SAE J1926/1 7/16 - 20 UNF
Installation Drawings (continued)

Radial ported endcap

Clockwise rotation

Counterclockwise rotation

Case drain port L1
Per ISO 11926-1
SAE J1926/1
7/8 - 14

LS signal port X
Per ISO 11926-1
SAE J1926/1
7/16 - 20 UNF

System pressure gage port M2
Per ISO 11926-1
SAE J1926/1
7/16 - 20 UNF

System port B (outlet)

System port S (inlet)

LS signal port X
Per ISO 11926-1
SAE J1926/1
7/16 - 20 UNF

Case drain port L2
Per ISO 11926-1
SAE J1926/1
7/8 - 14

R1 MAX
[0.04]

6
[0.24]

∈126.975 ± 0.025
[4.999 ± 0.001]

60.7
[2.39]

LS SIGNAL
PORT X

21.3
[0.84]

LS SIGNAL
PORT X
ALTERNATE

256.04
[10.08]

212.74
[8.38]

102.84
[4.05]

15.644
[0.62]

367
[14.44]

128.5
[5.06]

121.76
[4.79]

265.76
[10.463]

6
[0.24]

12.7
[0.5]

124
[4.88]

96
[3.78]

Case drain
Port L2

174
[6.85]

75
[2.95]

82
[3.23]

75
[2.95]

82
[3.23]

82
[3.23]

82
[3.23]
Installation Drawings (continued)  Radial ported endcap (continued)

PC pressure Adjustment

LS standby Pressure adjustment

Approximate center of gravity

Ø14.3 [0.56]

114.5 [4.51]

57.25 [2.25]

LS signal port X
Alternate
Per ISO 11926-1
SAE J1926/1
7/16 -20 UNF

102.84 [4.05]

128.5 [5.06]

96 [3.78]
Case drain port L1

196 [7.76]

215.74 [8.49]

Ø50.8 [2]
System port S
(Inlet port)
207 Bar [3000 PSI]
Split flange boss
Per ISO 6162
SAE J518
(Code 61)
with 1/2-13 UNC
x 27 [1.063]
MIN THD

Serve pressure gage port M4
Per ISO 11926-1
SAE J1926/1
7/16 -20 UNF
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