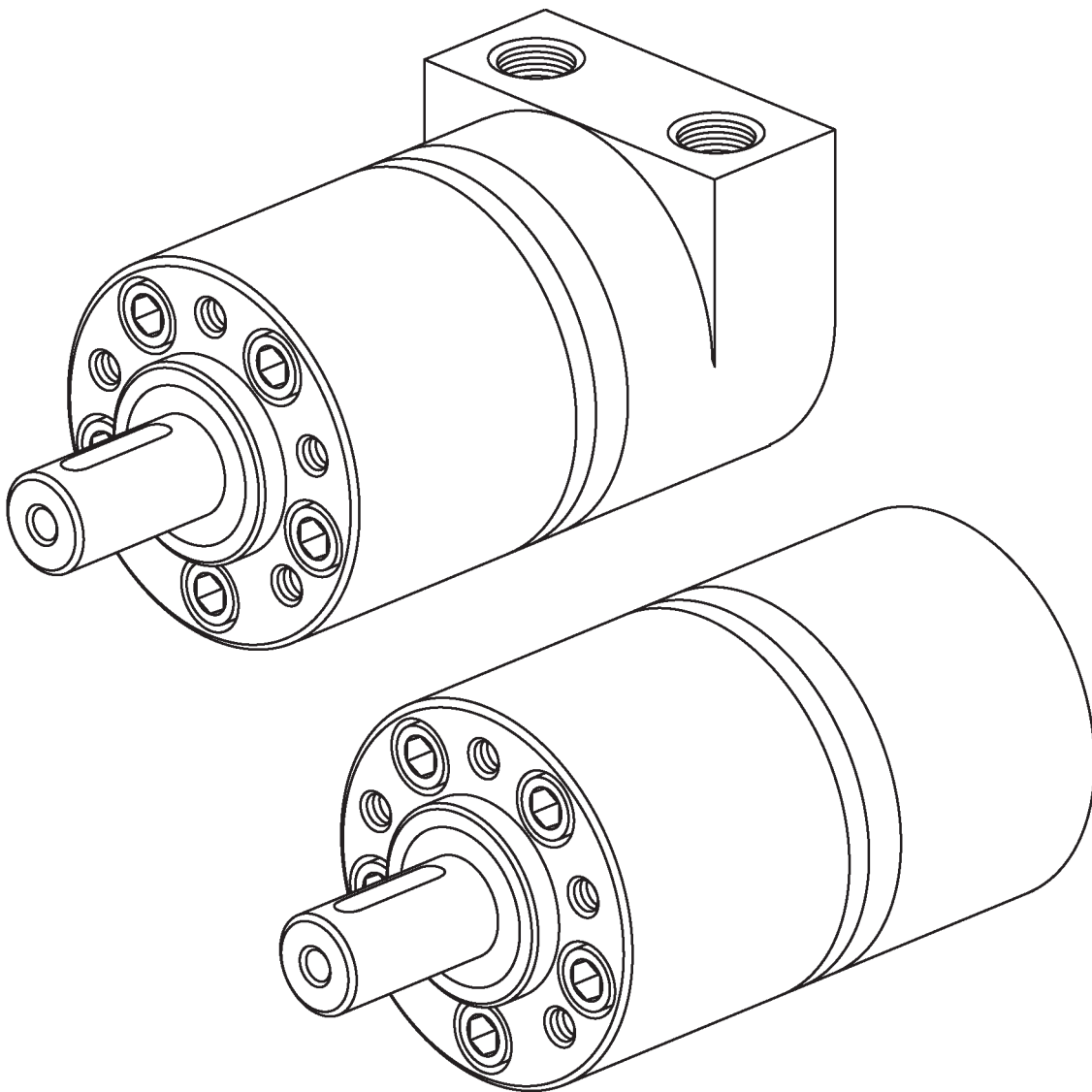




**Char-Lynn®**

J Series  
Geroler Motor

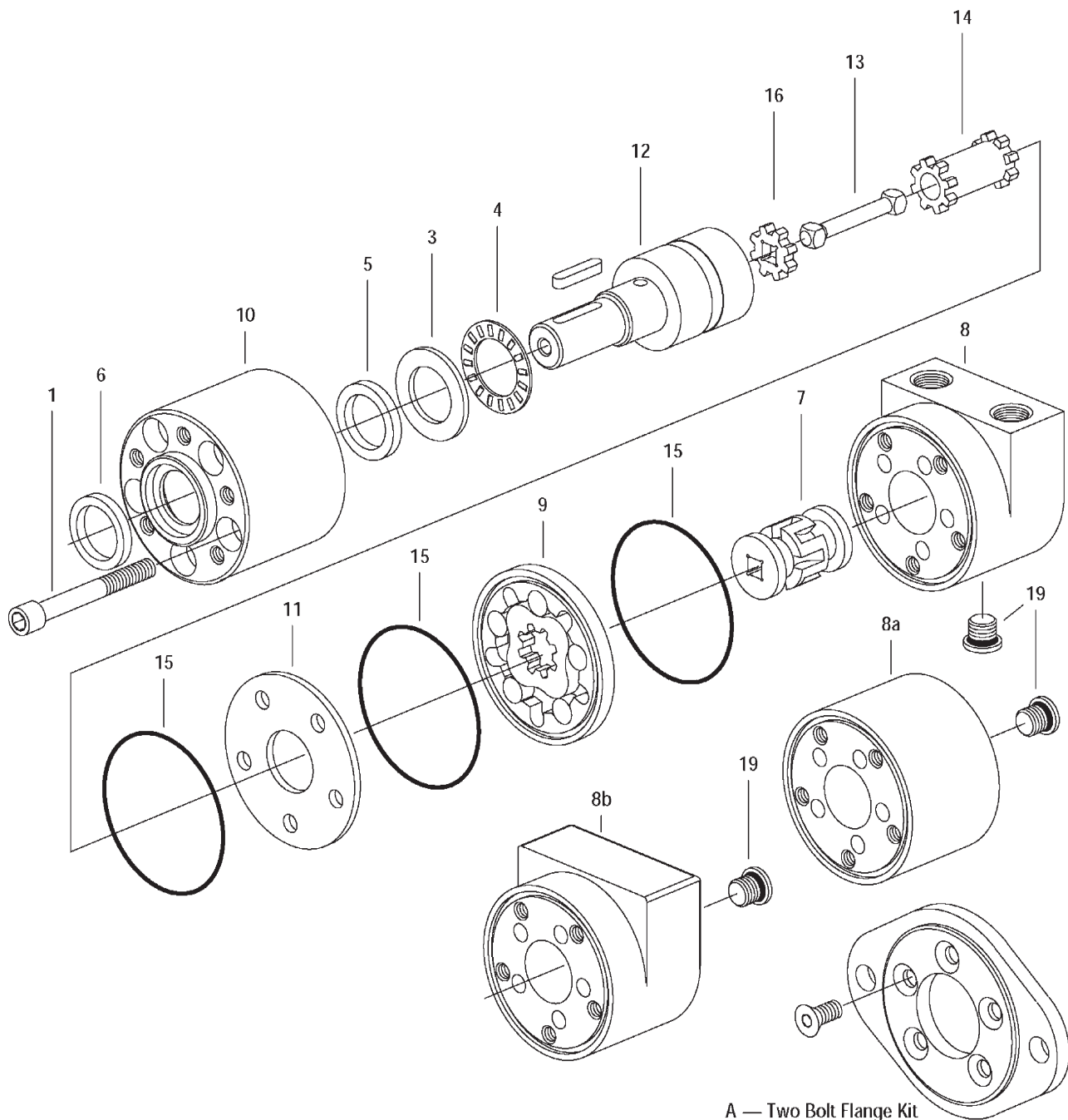
001



# J Series

## Parts Drawing and Parts List

| Displacement<br>cm <sup>3</sup> /r<br>[in <sup>3</sup> /r] | Ref. No. 1<br>Screw, Cap<br>Internal Hex | Length<br>mm [inch] | Ref. No. 13<br>Drive,<br>Spool | Length<br>mm [inch] | Ref. No. 14<br>Drive | Length<br>mm [inch] | Ref. No. 9<br>Geroler® | Length<br>mm [inch] |
|------------------------------------------------------------|------------------------------------------|---------------------|--------------------------------|---------------------|----------------------|---------------------|------------------------|---------------------|
| 8,2 [ .50]                                                 | 16148-422                                | 57,2 [2.25]         | 23016-001                      | 46,2 [1.82]         | 23017-001            | 32,39 [1.275]       | 201404-001             | 5,31 [ .209]        |
| 12,9 [ .79]                                                | 16148-424                                | 64,0 [2.50]         | 23016-002                      | 49,0 [1.93]         | 23017-002            | 35,48 [1.397]       | 201404-002             | 8,38 [ .330]        |
| 19,8 [1.21]                                                | 16148-426                                | 69,9 [2.75]         | 23016-003                      | 53,8 [2.12]         | 23017-003            | 40,03 [1.576]       | 201404-003             | 12,83 [ .505]       |
| 31,6 [1.93]                                                | 16148-430                                | 76,0 [3.00]         | 23016-004                      | 61,5 [2.42]         | 23017-004            | 47,68 [1.877]       | 201404-004             | 20,47 [ .806]       |



| Ref. No. | Part Number | Description                                                    | Quantity |
|----------|-------------|----------------------------------------------------------------|----------|
| 1        | *           | Screw, Cap Internal Hex                                        | 5        |
| 3        | 16241-C1220 | Washer, Thrust                                                 | 1        |
| 4        | 16241-1220  | Bearing, Needle Thrust                                         | 1        |
| X 5      | 9117-015    | Seal, Pressure                                                 | 1        |
| X 6      | 9121-003    | Seal, Exclusion                                                | 1        |
| 7        | 23015-000   | Spool                                                          | 1        |
| 8        | 23061-001   | Housing, Valve (Side Ports — 9/16-18 UNF)                      | 1        |
|          | 23061-004   | Housing, Valve (Side Ports — M14)                              | 1        |
|          | 23061-003   | Housing, Valve (Side Ports — G 1/4 (BSP))                      | 1        |
|          | 23061-002   | Housing, Valve (Side Ports — G 3/8 (BSP))                      | 1        |
| 8a       | 23018-001   | Housing, Valve (End Ports — 9/16-18 UNF)                       | 1        |
|          | 23018-003   | Housing, Valve (End Ports — M14)                               | 1        |
|          | 23018-002   | Housing, Valve (End Ports — G 1/4 (BSP))                       | 1        |
| 8b       | 23333-001   | Housing, Valve (End Ports — G 3/8 (BSP))                       | 1        |
| 9        | *           | Geroler®                                                       | 1        |
| 10       | 23019-001   | Housing, Bearing (1/4-28 UNF-2B Mounting Holes)                | 1        |
|          | 23019-002   | Housing, Bearing (M6 x 1 - 6H)                                 | 1        |
| 11       | 23024-000   | Plate, Spacer                                                  | 1        |
| 12       | 23020-001   | Shaft, Output (5/8 Straight Keyed)                             | 1        |
|          | 14535-004   | Key (for 5/8 Straight Keyed Shaft)                             | 1        |
|          | 23020-002   | Shaft, Output (16 mm Straight Keyed)                           | 1        |
|          | 14530-001   | Key (for 16 mm Straight Keyed Shaft)                           | 1        |
|          | 23020-007   | Shaft, Output (5/8 Straight with Crosshole)                    | 1        |
|          | 23020-008   | Shaft, Output (3/4 Tapered)                                    | 1        |
|          | 16029-610   | Key (.188 x .625 Woodruff Key) (for 3/4 Tapered)               | 1        |
|          | 16267-108   | Nut, Slotted (1/2-20 UNF x 11,2 [.44] Thick) (for 3/4 Tapered) | 1        |
|          | 23020-004   | Shaft, Output (11/16 Straight Keyed)                           | 1        |
|          | 14535-004   | Key (for 11/16 Straight Keyed Shaft)                           | 1        |
|          | 23020-005   | Shaft, Output (18 mm Straight Keyed)                           | 1        |
|          | 14531-001   | Key (for 18 mm Straight Keyed Shaft)                           | 1        |
|          | 23020-006   | Shaft, Output (Involute Splined Metric)                        | 1        |
| 13       | *           | Drive, Spool                                                   | 1        |
| 14       | *           | Drive                                                          | 1        |
| X 15     | 16007-006   | Seal, O-ring                                                   | 3        |
| 16       | 23074-000   | Spacer, Output Shaft                                           | 1        |
| 19       | 9072-002    | Plug/O-ring S/A (3/8-24 UNF Drain Port)                        | 1        |
| X        | 250003-903  | O-ring (for 3/8-24 UNF Plug)                                   | 1        |
|          | 9237-001    | Plug/O-ring S/A (M10 Drain Port)                               | 1        |
| X        | 14581-001   | O-ring (for M10 Plug)                                          | 1        |
|          | 9170-001    | Plug/O-ring S/A (G 1/8 (BSP) Drain Port)                       | 1        |
| X        | 14591-001   | Ring Seal (for G 1/8 (BSP) Plug)                               | 1        |
| A        | 60552-000   | 2 Bolt Flange Kit (for 3/8 Mounting Bolts)                     | 1        |
|          | 60553-000   | 2 Bolt Flange Kit (for M8 Mounting Bolts)                      | 1        |
|          | 60554-000   | Seal Kit — Contains Parts Indicated by X                       |          |

\* See Chart on Page 2

## How to Order Replacement Parts

### Each Order Must Include the Following:

1. Product Number
2. Date Code
3. Part Name
4. Part Number
5. Quantity of Parts

For More Detailed Information Contact Eaton Corp. Hydraulics Division 15151 Highway 5 Eden Prairie, MN 55344.

- Specifications and performance data, Catalog No. 11-104
- When servicing J Series Motors refer to Repair Information No. 7-144. This repair manual lists tools required, and step by step disassembly and reassembly procedures.

### Label identification:

Brand name → Char-Lynn®

Product number → XXX-XXXX-XXX

Serial number → XXXX

Date code → XXXX-XX-XX



MADE IN USA



Danfoss A/S, 6430 Nordborg, Denmark

Country of origin

| Port Location    | Port Size                                              | Mounting Holes (5) | Shaft               | Displ. cu. cm./rev. [cu. in./rev.]/ Product Numbers |            |             |             |
|------------------|--------------------------------------------------------|--------------------|---------------------|-----------------------------------------------------|------------|-------------|-------------|
|                  |                                                        |                    |                     | 8,2 [.50]                                           | 12,9 [.79] | 19,8 [1.21] | 31,6 [1.93] |
| End Port Motors  | 9/16-18 UNF O-ring (2)<br>3/8-24 UNF<br>Drain Port (1) | 1/4-28 UNF 2B      | 5/8 inch Straight   | 129-0001                                            | 129-0002   | 129-0003    | 129-0004    |
|                  |                                                        |                    | 11/16 inch Straight | 129-0089                                            | 129-0090   | 129-0091    | 129-0092    |
|                  |                                                        |                    | Splined — Metric    | 129-0009                                            | 129-0010   | 129-0011    | 129-0012    |
|                  | M14 (2)<br>M10<br>Drain Port (1)                       | M6 x 1 - 6H        | 16 mm Straight      | 129-0041                                            | 129-0042   | 129-0043    | 129-0044    |
|                  |                                                        |                    | 18 mm Straight      | 129-0045                                            | 129-0046   | 129-0047    | 129-0048    |
|                  |                                                        |                    | Splined — Metric    | 129-0049                                            | 129-0050   | 129-0051    | 129-0052    |
|                  | G 1/4 (BSP) (2)<br>G 1/8 (BSP)<br>Drain Port (1)       | M6 x 1 - 6H        | 16 mm Straight      | 129-0005                                            | 129-0006   | 129-0007    | 129-0008    |
|                  |                                                        |                    | 18 mm Straight      |                                                     |            |             |             |
|                  |                                                        |                    | Splined — Metric    | 129-0013                                            | 129-0014   | 129-0015    | 129-0016    |
|                  | G 3/8 (BSP) (2)<br>G 1/8 (BSP)<br>Drain Port (1)       | M6 x 1 - 6H        | 16 mm Straight      | 129-0113                                            | 129-0114   | 129-0115    | 129-0116    |
|                  |                                                        |                    | 18 mm Straight      |                                                     |            |             |             |
|                  |                                                        |                    | Splined — Metric    | 129-0141                                            | 129-0142   | 129-0143    | 129-0144    |
| Side Port Motors | 9/16-18 UNF O-ring (2)<br>3/8-24 UNF<br>Drain Port (1) | 1/4-28 UNF 2B      | 5/8 inch Straight   | 129-0017                                            | 129-0018   | 129-0019    | 129-0020    |
|                  |                                                        |                    | 11/16 inch Straight | 129-0093                                            | 129-0094   | 129-0095    | 129-0096    |
|                  |                                                        |                    | Splined — Metric    | 129-0029                                            | 129-0030   | 129-0031    | 129-0032    |
|                  | M14 (2)<br>M10<br>Drain Port (1)                       | M6 x 1 - 6H        | 16 mm Straight      | 129-0053                                            | 129-0054   | 129-0055    | 129-0056    |
|                  |                                                        |                    | 18 mm Straight      | 129-0057                                            | 129-0058   | 129-0059    | 129-0060    |
|                  |                                                        |                    | Splined — Metric    | 129-0061                                            | 129-0062   | 129-0063    | 129-0064    |
|                  | G 1/4 (BSP) (2)<br>G 1/8 (BSP)<br>Drain Port (1)       | M6 x 1 - 6H        | 16 mm Straight      | 129-0025                                            | 129-0026   | 129-0027    | 129-0028    |
|                  |                                                        |                    | 18 mm Straight      |                                                     |            |             |             |
|                  |                                                        |                    | Splined — Metric    | 129-0037                                            | 129-0038   | 129-0039    | 129-0040    |
|                  | G 3/8 (BSP) (2)<br>G 1/8 (BSP)<br>Drain Port (1)       | M6 x 1 - 6H        | 16 mm Straight      | 129-0021                                            | 129-0022   | 129-0023    | 129-0024    |
|                  |                                                        |                    | 18 mm Straight      |                                                     |            |             |             |
|                  |                                                        |                    | Splined — Metric    | 129-0033                                            | 129-0034   | 129-0035    | 129-0036    |

Two Bolt Mounting Flange Kit (for 3/8 inch Mounting Bolts) — Kit Number 60552 ( includes 5 screws — 1/4-28 UNF)

Two Bolt Mounting Flange Kit (for M8 Mounting Bolts) — Kit Number 60553 ( includes 5 screws — M6 x 1 - 6H)

\*Note: The Same Casting used for Side Ports is Required for G 3/8 (BSP) End Ports

Availability of J Series Motors Listed without Product Numbers (on the Chart above) contact your Danfoss representative.

**Products we offer:**

- Cartridge valves
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
- PLUS+1® sensors
- PLUS+1® software
- PLUS+1® software services, support and training
- Position controls and sensors
- PVG proportional valves
- Steering components and systems
- Telematics

**Danfoss Power Solutions** is a global manufacturer and supplier of high-quality hydraulic and electric 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 as well as the marine sector. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of applications. We help you and other customers around the world speed up system development, reduce costs and bring vehicles and vessels to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics and mobile electrification.

**Go to [www.danfoss.com](http://www.danfoss.com) for further product information.**

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.

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**Daikin-Sauer-Danfoss**

[www.daikin-sauer-danfoss.com](http://www.daikin-sauer-danfoss.com)

**Danfoss  
Power Solutions (US) Company**  
2800 East 13th Street  
Ames, IA 50010, USA  
Phone: +1 515 239 6000

**Danfoss  
Power Solutions GmbH & Co. OHG**  
Krokamp 35  
D-24539 Neumünster, Germany  
Phone: +49 4321 871 0

**Danfoss  
Power Solutions ApS**  
Nordborgvej 81  
DK-6430 Nordborg, Denmark  
Phone: +45 7488 2222

**Danfoss  
Power Solutions Trading  
(Shanghai) Co., Ltd.**  
Building #22, No. 1000 Jin Hai Rd  
Jin Qiao, Pudong New District  
Shanghai, China 201206  
Phone: +86 21 2080 6201