SPECIFICATIONS

PRESSURE RATING — At 1800 rpm
3000 psi (206.9 bar) maximum continuous pressure.
5000 psi (344.8 bar) maximum intermittent pressure.
* The pump should not be subjected to the maximum intermittent pressure more than 25% of
the duty cycle and not more than 10 minutes per hour. If either the pressure or time exceed
the recommended maximum, consult the factory.

FLOW RATE — Model EO55 pump at 1800 rpm and 3000 psi (206.9 bar) will
deliver .29 gpm (1.11/min).

MAXIMUM DRIVE SPEED — 1800 rpm maximum drive speed.

MINIMUM DRIVE SPEED — 100 rpm minimum recommended speed.

OVERHUNG LOADS — Not recommended except under certain conditions. Con-
sult the factory.

ROTATION — Standard piston pumps will operate in either direction of rotation
with outlet flow remaining in the same direction.

PUMP SHAFT DESIGN — Use inline prime movers with flexible coupling align-
ment within 0.002" (0.5 mm) total indicator reading. The driving end of the pump
shall be flattened.

PRIMING — Pump must have a positive head in the suction line and is accom-
plished by mounting it at least 3 feet (0.9 meters) below the oil level of the res-
ervoir. Maximum inlet pressure for the standard pump is 10 psi (0.7 bar) which
is equivalent to a head of 23 feet.

SUPERCHARGING — If the pump is supercharged from an external source, a high
pressure shaft seal is required and the drain port must be vented to tank. Maximum
supercharge pressure is 250 psi (17.2 bar). The supercharge flow rate should be
greater than the normal delivery of the pump to assure a positive head but not greater
than 1.5 gpm (5.7 l/min) or the pistons will lift off the cam. To order the high pressure
shaft seal, specify the letter “H” before the model number. Example: Model HE055.

FLUID RECOMMENDATIONS — Premium grade hydraulic fluid with 100 to 250
SUS (21 to 54 cSt) viscosity at operating temperature. Maximum allowable vis-
cosity for cold start-up is 750 SUS (162 cSt). Minimum allowable viscosity is 60
SUS (10 cSt). For detailed fluid information refer to Racine publication S-106,
“Petroleum Hydraulic Fluids.”

SEALS — This pump may be used with phosphate ester fluids when equipped
with proper seals. Water base fluids are not recommended. When ordering for use
with phosphate ester fluids, specify “F2” after the model number. Example: Model
EO55-F2. For additional information refer to Racine publication S-107, “Fire
Resistant Fluids.”

ISO-FLO — Available with 2 outlets, 1 piston each outlet.

TEMPERATURE — Under normal conditions of continuous operation, fluid tem-
perature should not exceed 130°F (54°C). In no instance should the temperature
exceed 160°F (71°C).

FILTRATION — 149 micrometre inlet filtration is recommended. Consult the fac-
tory for suggested types of both inlet and return line filtration for increased com-
ponent life.

MOUNTING POSITION — Not restricted.

WEIGHT (Approx.) — Standard pump — 9.5 lbs. (4.3 kg).
Add for foot-mounting bracket — 4.7 lbs. (2.1 kg).

PERFORMANCE CHARACTERISTICS — 1800 RPM

For repair parts see Bulletin 16.10. Dotted line indicates intermittent duty.
**DIMENSIONAL DATA**

**INLET 3/8 N.P.T.**

**1/4 NPTF OUTLET**

**INCHES**

- **0.19**
- **2.60**
- **3.37**
- **4.61**
- **5.16**

**MILLIMETRES**

- **(5.0)**
- **(66.0)**
- **(85.0)**
- **(117.0)**
- **(126.0)**

**NOTE:**

- UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE NOMINAL.

**HIGH PRESSURE SEAL**

- **DRAIN PORT 1/8 NPTF**

**VENT TO TANK**

- **3/8 NPT**

- **2.25**
- **2.625**
- **3.250**
- **4.00**
- **4.600**
- **6.00**

**FOOT MOUNTING BRACKET**

- **TORQUE TO 100 in-lbs (44 Nm)**

- **3 MTG. HOLES**

- **6.00**
- **6.00**
- **6.125**
- **(127.0)**
- **(127.0)**
- **(155.0)**

**NOTE:**

- UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE NOMINAL.

**HIGH PRESSURE SEAL**

- **NOTE:**

  - UNLESS OTHERWISE SPECIFIED
  - ALL DIMENSIONS ARE NOMINAL.

**FOOT MOUNTING BRACKET**

- **TORQUE TO 100 in-lbs (44 Nm)**

- **3 MTG. HOLES**

**NOTE:**

- UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE NOMINAL.

**HOW TO ORDER**

- **ISO-FLO**

- **HEO55-F2-2/0-1P-1P**

- **ISO-FLO**

- **HEO55-F2-2/0-1P-1P**

**FOOT MOUNTING BRACKET**

- **TORQUE TO 100 in-lbs (44 Nm)**

- **3 MTG. HOLES**

- **NOTE:**

  - UNLESS OTHERWISE SPECIFIED
  - ALL DIMENSIONS ARE NOMINAL.