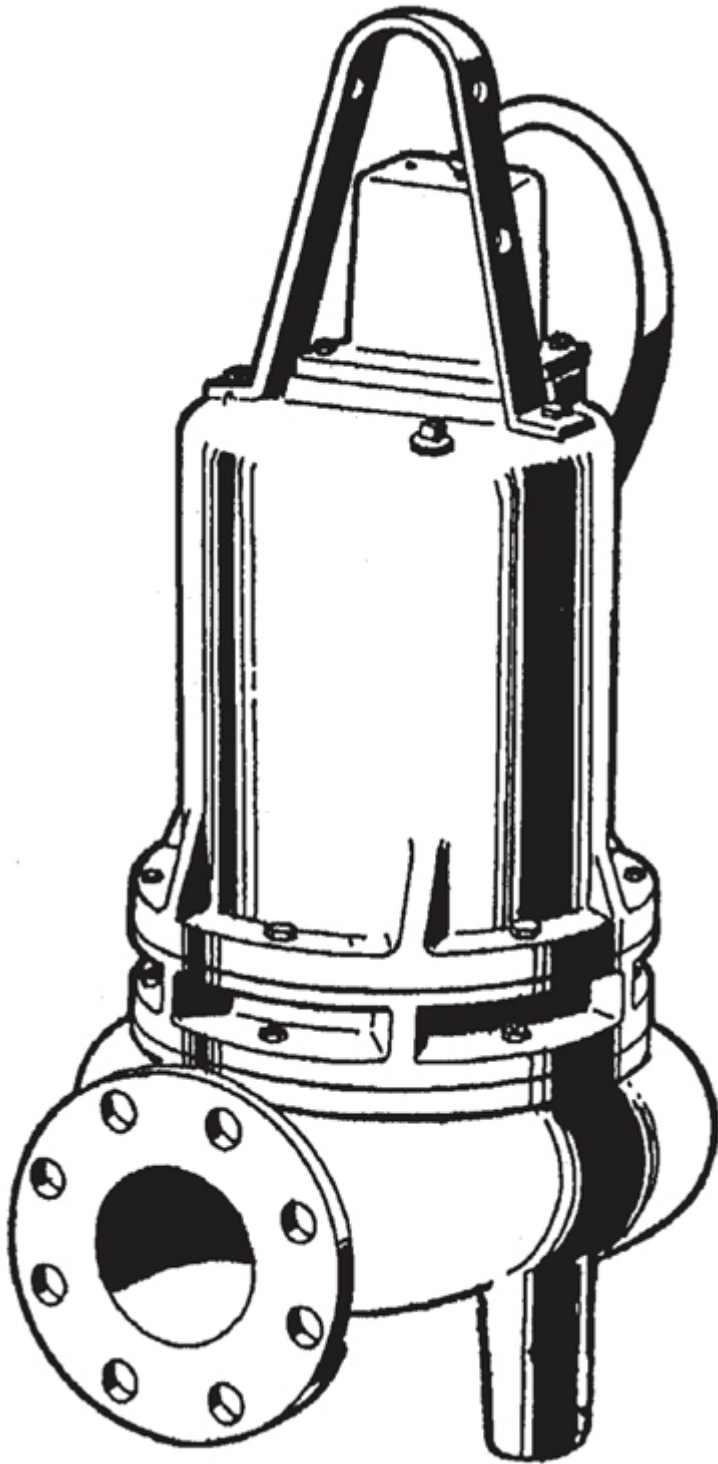


4SE-L – 4.5 HP

3" Spherical Solids Handling

BARNES®



Specifications

DISCHARGE: 4" 125lb., Horizontal flange

SPEED: 1750 RPM (Nominal)

IMPELLER:

- **Design:** 2 Vane, open with pump out vanes on back side, dynamically balanced, ISO G6.3
- **Material:** Cast iron ASTM A-48, class 30

CORD ENTRY: 40 ft. (12.1 m) Cord. Epoxy sealed housing with secondary pressure grommet for sealing and strain relief

MOTOR:

- **Design:** NEMA L- single phase, NEMA B - three phase torque curve, oil filled, squirrel cage induction
- **Winding:** Class F, class H rated magnet wire
- **Service Factor:** 1.15

SEAL:

- **Design:** Double mechanical, oil filled pressure equalized reservoir
- **Material:** Carbon/Ceramic/Buna-N

DIAPHRAGM: Buna-N

LIQUID TEMPERATURE: 104°F (40°C) Continuous

VOLUTE: Cast iron ASTM A-48, class 30

MOTOR HOUSING Cast iron ASTM A-48, class 30

SEAL PLATE: Cast iron ASTM A-48, class 30

SHAFT: 416 Stainless steel

SQUARE RINGS: Buna-N

HARDWARE: 300 Series stainless steel

PAINT: Air dry enamel (epoxy optional)

BEARINGS:

Upper Bearing:

- Design: Single row, ball, oil lubricated
- Load: Radial

Lower Bearing:

- Design: Single row, ball, oil lubricated
- Load: Radial

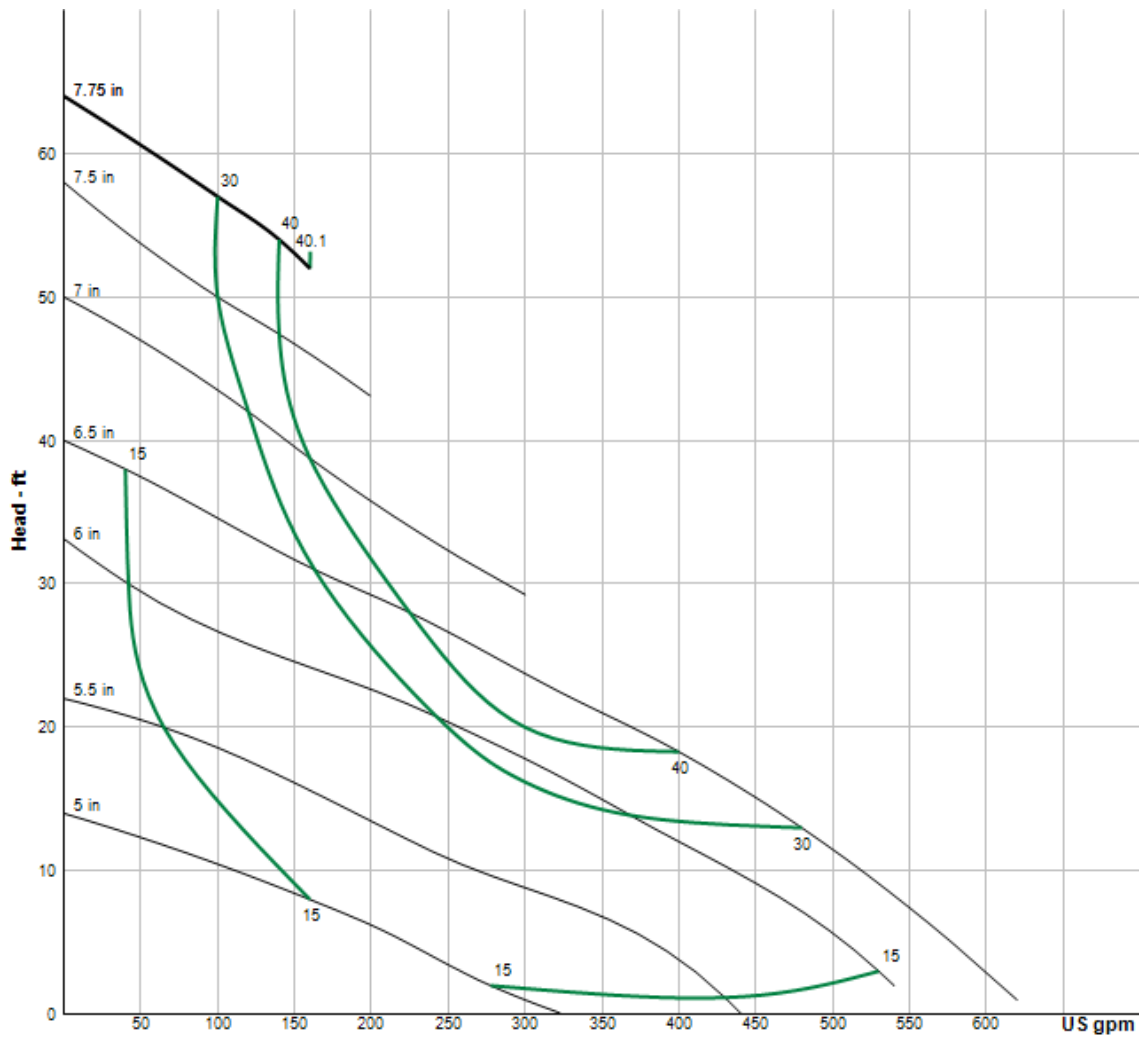
SINGLE PHASE: Capacitor start/capacitor run. Requires Barnes starter/panel which includes capacitors and overload protection

THREE PHASE: Dual voltage motor 230/460/575. Requires overload protection to be included in control panel, VFD suitable

MOISTURE SENSOR: Normally open (N/O), requires relay in control panel

TEMPERATURE SENSOR: Normally Closed (N/C), Requires relay in control panel. For three phase units ONLY

Curves



| Pump HP | Impeller Dia mm (in.) |
|---------|-----------------------|
| 4.5 | 165 (6.50) |
| 7.5 | 178 (7.00) |
| 11.3 | 203 (8.00) |
| 15.0 | 216 (8.50) |

Model Information

| MODEL NO. | 4SE4524L | 4SE4564L | 4SE4534L | 4SE4544L | 4SE4554L |
|--------------------|--------------|--------------|--------------|--------------|--------------|
| PART NO. | 084623 | 084624 | 084625 | 084626 | 089306 |
| HP | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| VOLT/PH | 230/1 | 200/3 | 230/3 | 460/3 | 575/3 |
| Hz | 60 | 60 | 60 | 60 | 60 |
| RPM (nom) | 1750 | 1750 | 1750 | 1750 | 1750 |
| NEMA START CODE | A | C | E | E | E |
| FULL LOAD AMPS | 26 | 20.9 | 18.2 | 9.1 | 7.2 |
| LOCKED ROTOR AMPS | 59 | 48.6 | 56 | 28 | 22.4 |
| CORD SIZE | 10/4 | 10/4 | 10/4 | 10/4 | 10/4 |
| CORD TYPE | SOW | SOW | SOW | SOW | SOW |
| CORD O.D INCH (mm) | 0.750 (19.1) | 0.750 (19.1) | 0.750 (19.1) | 0.750 (19.1) | 0.750 (19.1) |

Drawing

