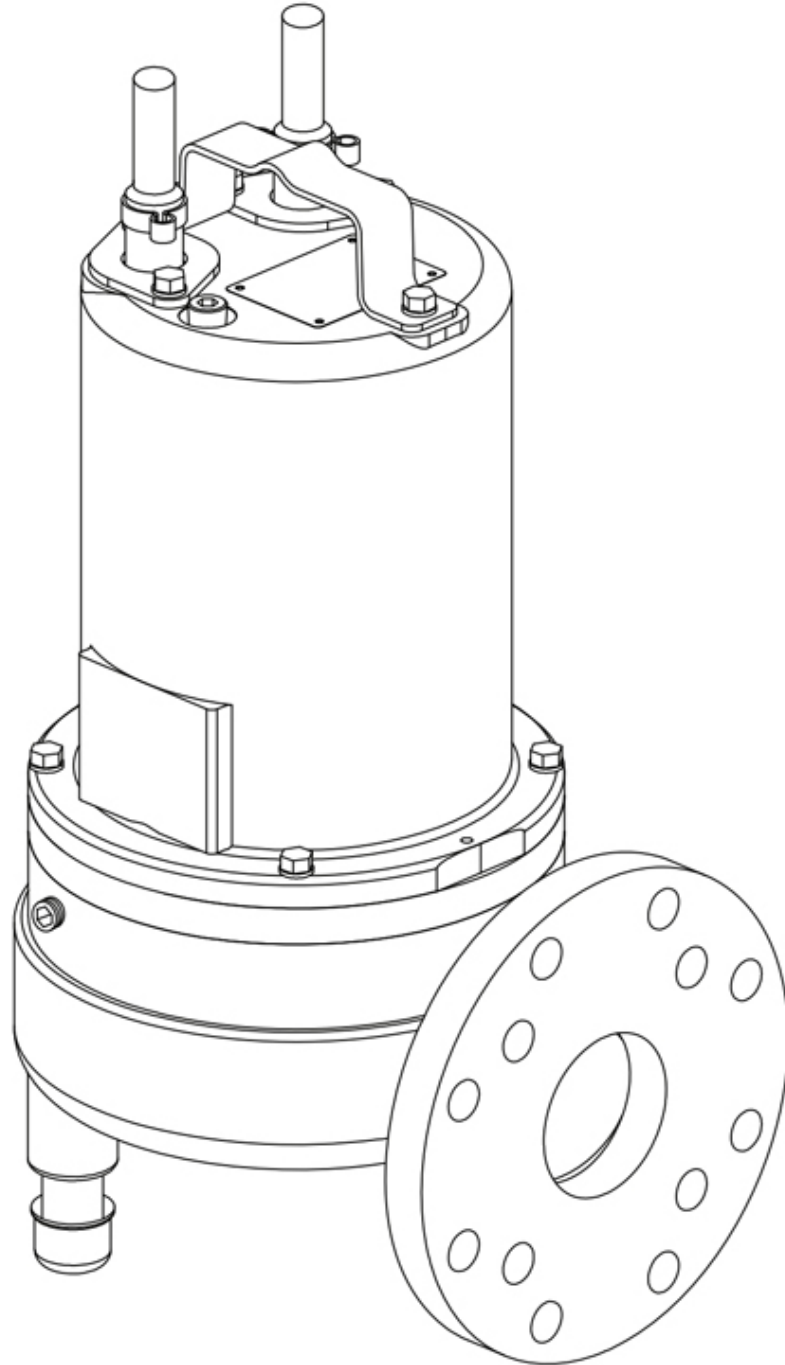


4SE-L – 1.4 HP

2" Spherical Solids Handling



BARNES®

Specifications

DISCHARGE: 3" & 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: 30 ft. (9.1m) Quick disconnect cord with plug on 120Volt, custom molded for sealing and strain relief

MOTOR:

- **Design:** NEMA L- single phase, NEMA B - three phase torque curve, oil filled, squirrel cage induction
- **Insulation:** Class B

SEAL:

- **Design:** Single mechanical
- **Material:** Carbon/Ceramic/Buna-N Hardware - 300 series stainless

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

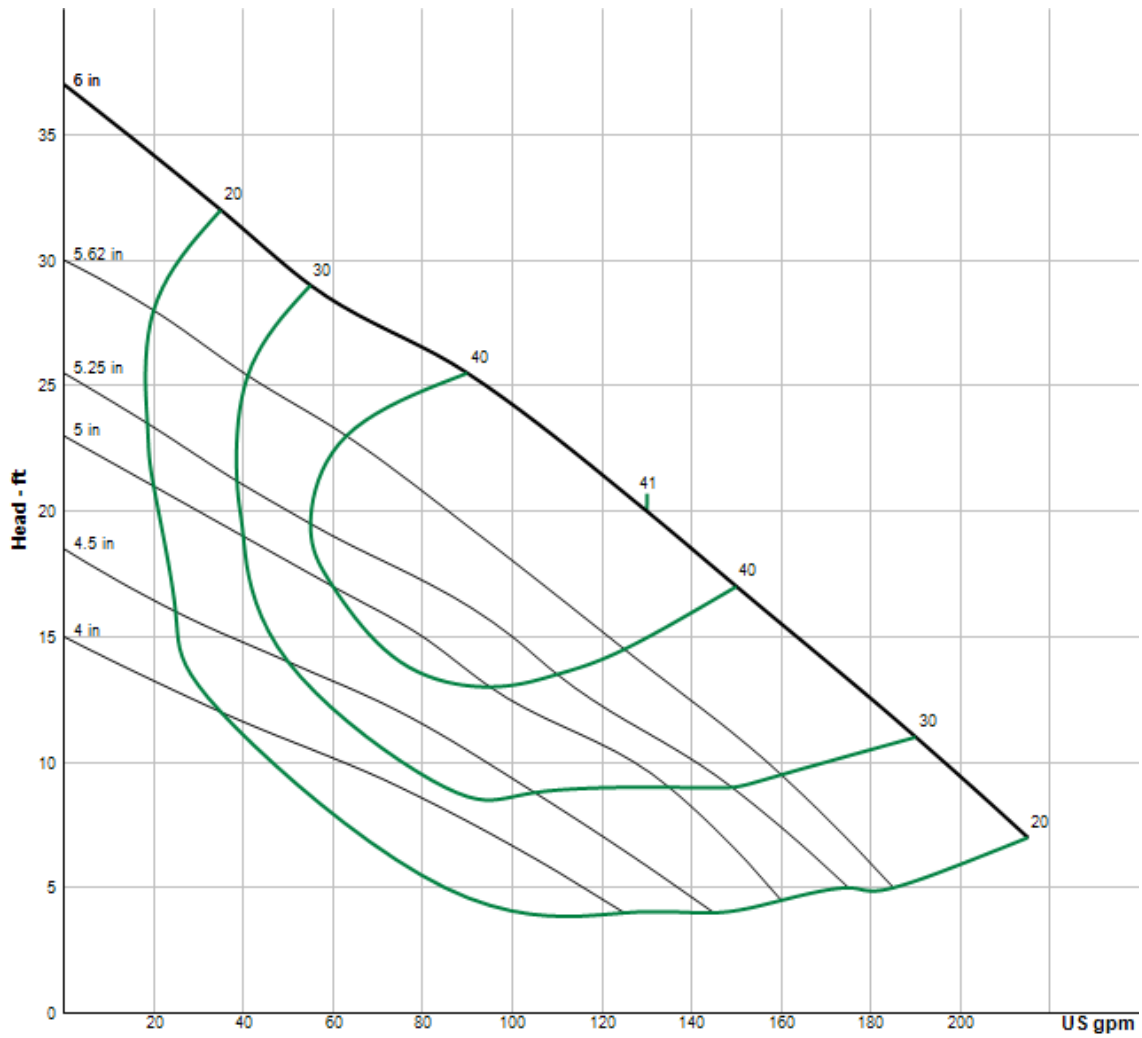
Lower Bearing:

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

SINGLE PHASE: Permanent split capacitor (PSC) includes overload protection in motor

THREE PHASE: 200-240/480 is tri voltage motor. 600V Requires overload protection to be included in control panel

Curves



Pump HP	Impeller Dia mm (in.)
0.9	133 (5.25)
1.4	143 (5.62)
1.9	152 (6.00)



Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids

Model Information

MODEL NO.	4SE1474L	4SE1494L	4SE1444L	4SE1454L
PART NO.	105024	105025	105026	105027
HP	1.4	1.4	1.4	1.4
VOLT/PH	200-240/1	200-240/3	480/3	600/3
Hz	60	60	60	60
RPM (nom)	1750	1750	1750	1750
NEMA START CODE	A/D	B/E	E	F
INSUL. CLASS	F	B	B	B
FULL LOAD AMPS	7.4/7.0	4.8/4.5	2.2	1.5
LOCKED ROTOR AMPS	21.5/25.8	13.7/15.4	7.7	7.2
CORD SIZE	14/3	14/4	14/4	14/4
CORD TYPE	SOW	SOW	SOW	SOW
CORD O.D INCH (mm)	0.530 (13.5)	0.570 (14.5)	0.570 (14.5)	0.570 (14.5)



OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.



Important

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

Drawing

