



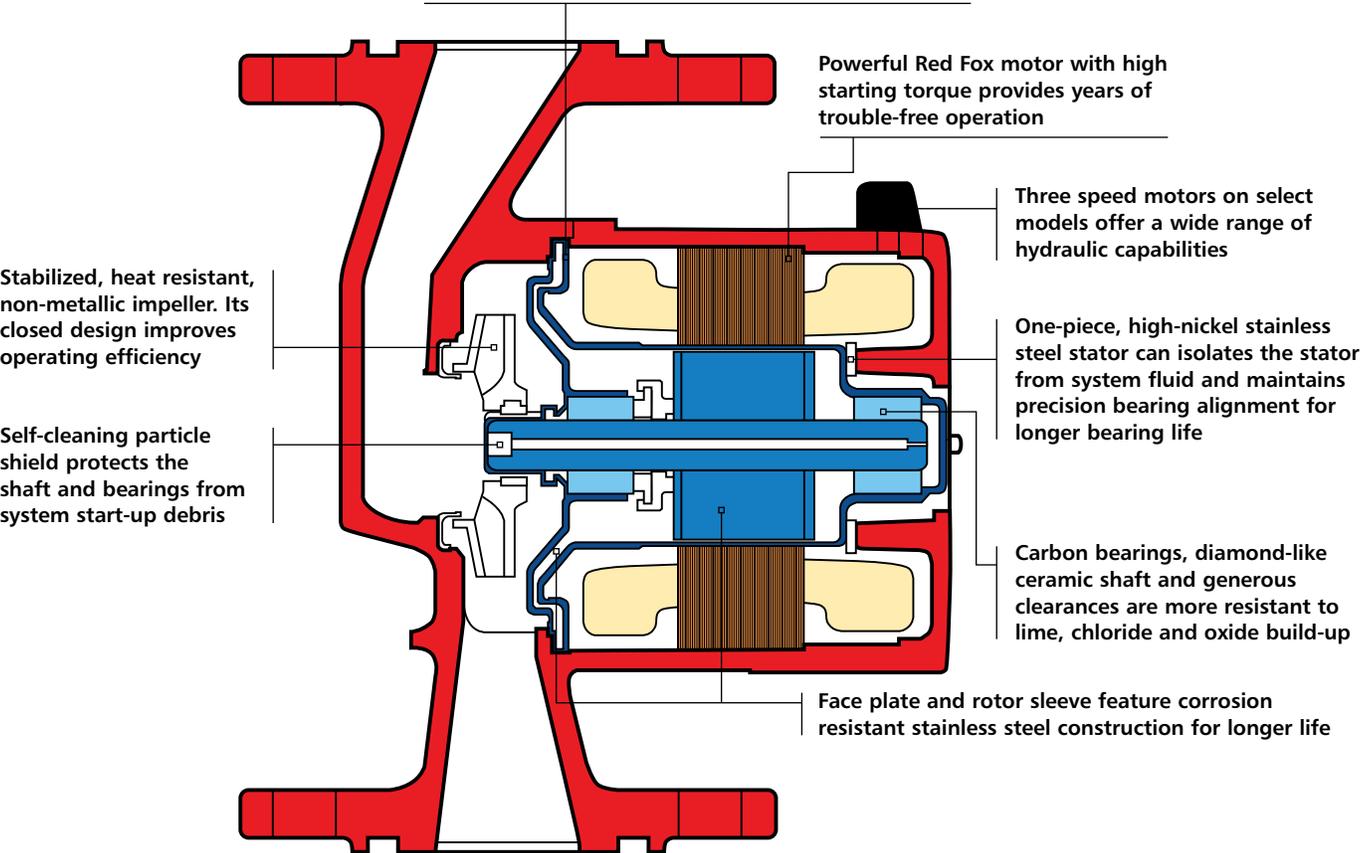
- High starting torque provides years of trouble-free start-ups
- Unique B&G DuraGlide™ Bearing System assures whisper-quiet, maintenance-free operation
- Closed impeller design improves operating efficiency
- Backed by B&G's representatives and a great 3-year warranty

# Wet Rotor Circulators

# Bell & Gossett Wet Rotor Circulators

Reliable, maintenance-free, whisper quiet wet rotor circulators designed for residential and light commercial heating systems.

DuraGlide™ Bearing System (blue areas in cutaway illustration) incorporates several components working together to eliminate seasonal freeze-up



NRF-9

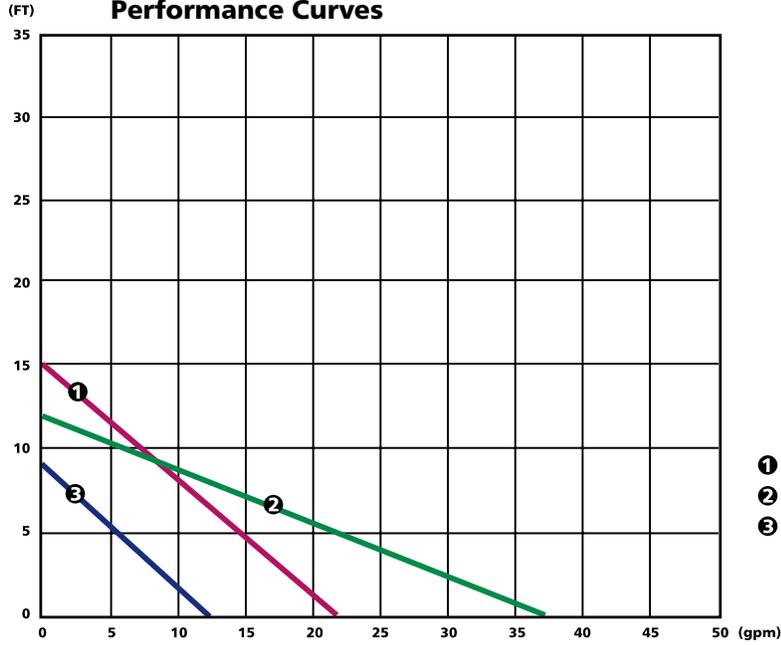


NRF-22



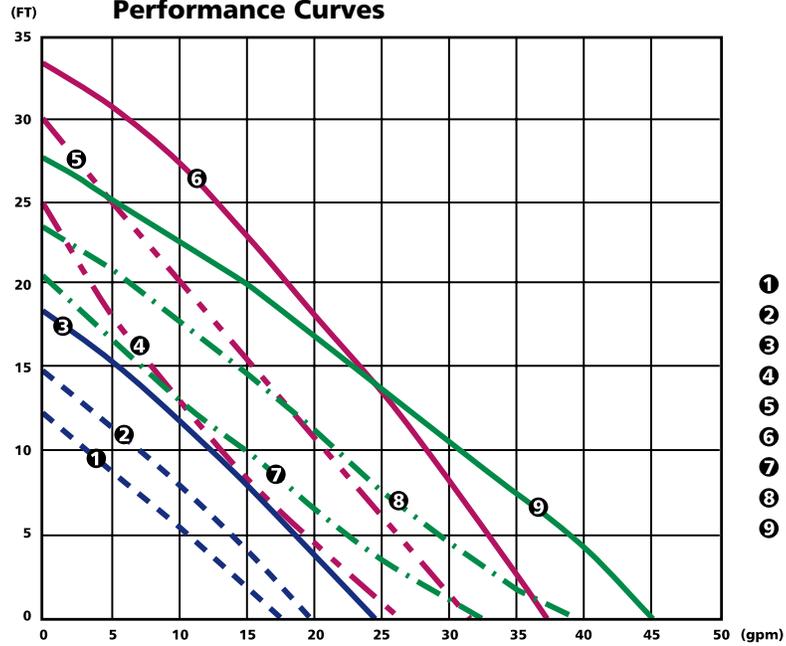
NRF-33

### Single Speed NRF Circulator Performance Curves



- ① NRF-22
- ② NRF-33
- ③ NRF-9F/LW

### Three-Speed NRF Circulator Performance Curves



- ① NRF-25 Speed 1
- ② NRF-25 Speed 2
- ③ NRF-25 Speed 3
- ④ NRF-36 Speed 1
- ⑤ NRF-36 Speed 2
- ⑥ NRF-36 Speed 3
- ⑦ NRF-45 Speed 1
- ⑧ NRF-45 Speed 2
- ⑨ NRF-45 Speed 3



## Description

A residential or light commercial, maintenance-free, axial flanged, in-line, cast iron, wet rotor circulation pump for hydronic heating systems. UL and cUL Listed.

## Operating Data

Maximum working pressure ..... 150 psi (10 bar)  
 Maximum operating temperature  
 NRF-22 and NRF-9F/LW ..... 240°F (115°C)  
 NRF-25, NRF-33, NRF-36 and NRF-45 ..... 225°F (107°C)

## Dimensions

Model Number	Part Number	Flange Sizes Inches - NPT	Dimensions Inches (mm)			Standard 60 Cycle Motor Characteristics*					Shipping Weight lbs. (Kg)
			A	B	C	Watts	∅	Volts	F.L. Amps	RPM	
NRF-9F/LW	103267	3/4, 1, 1 1/4, 1 1/2	6 3/8 (162)	6 3/16 (157)	5 1/8 (130)	41	1	115	0.40	2800	9.3 (4.2)
NRF-22	103251		6 3/8 (162)	6 3/16 (157)	5 1/8 (130)	92			0.80	2940	9.3 (4.2)
NRF-25	103417		6 3/8 (162)	6 3/16 (157)	5 1/8 (130)	125			1.20	2950	10.4 (4.7)
NRF-33	103350		6 3/8 (162)	5 9/16 (141)	4 7/8 (124)	125			1.10	2950	10.4 (4.7)
NRF-36	103400		6 3/8 (162)	6 7/8 (175)	5 3/4 (146)	270			2.30	3300	13.1 (6.0)
NRF-45	103404	1, 1 1/4, 1 1/2	8 1/2 (216)	7 3/8 (187)	5 3/4 (146)	270			2.30	3300	14.5 (6.6)

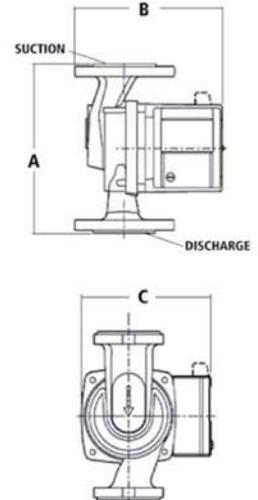
NRF-9F/LW, NRF-22, NRF-25 and NRF-33 are impedance protected.  
 NRF-36 and NRF-45 are thermally protected.  
 Dimensions are approximate and subject to change. Contact factory for certified dimensions.

## Construction Materials

Pump body ..... Cast iron  
 Impeller ..... Noryl  
 Shaft ..... Ceramic  
 Bearings ..... Double-sintered Carbon

## Warranty

Bell & Gossett offers a warranty of three years from date of manufacture or 18 months from date of installation (whichever comes first) against failure as a result of defects in materials or workmanship.



## Our Pump Controllers



The TC-1 is a programmable timer control that allows the circulator to turn on and off automatically at preset times. This permits the pump to circulate hot water only during those times when high usage can be expected throughout the day.



NRF-VS Pump Control is a versatile variable speed control for use in hydronic heating and cooling applications. Water temperature is controlled by regulating the speed of the pump which injects water from a different temperature water loop into a controlled loop.



The ZoneTrol II AZ-1A is a single zone pump relay that turns the pump and boiler on when the thermostat calls for heat. The AZ-1A is ideal when adding a zone to an existing system and can be daisy-chained together to control multiple zones.



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