



Reliable, Maintenance-Free,  
Whisper-Quiet Wet Rotor Circulators  
for Residential and Light Commercial  
Heating Systems



- 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
- NRF-22 replaces TACO\* 007 and Grundfos‡ UP15-42F
- NRF-33 replaces TACO\* 0010
- NRF-9F/LW - low watt model ideal for zoning applications and injection pumping in radiant systems
- NRF-36 replaces TACO\* 0013, 0011, 0014 and Grundfos‡ UP26-99, UP26-96 and UP26-64
- NRF-45 replaces Grundfos‡ UP43-75



ITT

*Engineered for life*

# Bell & Gossett Red Fox® Wet Rotor Circulators

for Residential and Light Commercial Heating Systems

## 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

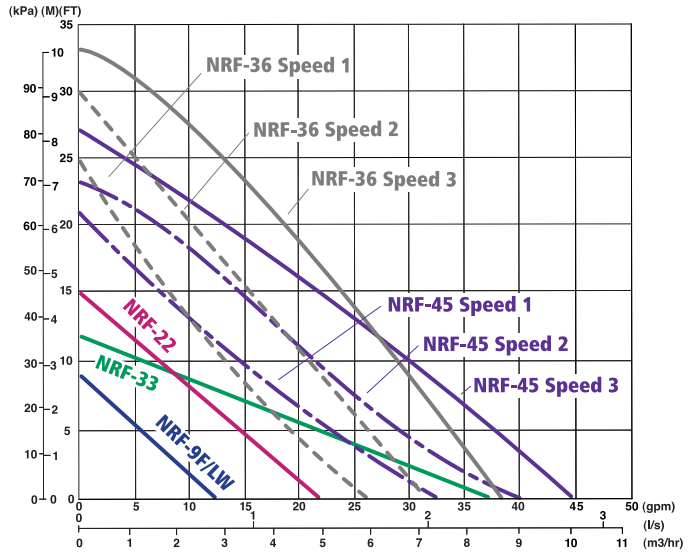
Maximum working pressure . . . . . 150 psi (10 bar)  
 Maximum operating temperature  
 NRF-22 & NRF-9F/LW . . . . . 240°F (115°C)  
 NRF-33, NRF-36 & NRF-45 . . . . . 225°F (107°C)

## Materials of Construction

Pump Body . . . . . Cast Iron  
 Impeller . . . . . Polypropylene  
 NRF-22 & NRF-9F/LW . . . . . Polypropylene  
 NRF-33, NRF-36 & NRF-45 . . . . . 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 (which ever comes first) against failure as a result of defects in materials and workmanship.

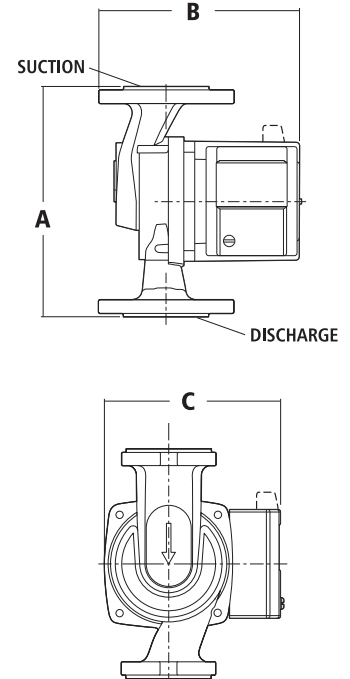


Model Number	Part Number	Flange Sizes Inches - NPT	Dimensions Inches - (mm)			Standard 60 Cycle Motor Characteristics*				Shipping Weight lbs. (Kg)	
			A	B	C	Watts	∅	Volts	E.L. Amps		RPM
NRF-22	103251	3/4, 1, 1-1/4, 1-1/2	6-3/8 (162)	5-9/16 (141)	4-7/8 (124)	92	1	115	0.80	2940	9.3 (4.2)
NRF-9F/LW	103267			6-3/16 (157)	5-1/8 (130)	41			0.40	2800	
NRF-33	103350			6-3/16 (157)	5-1/8 (130)	125			1.10	2950	
NRF-36	103400			6-7/8 (175)	5-3/4 (146)	270			2.30	3300	
NRF-45	103404			7-3/8 (187)	5-3/4 (147)	270			2.30	3300	

NRF-9F/LW, NRF-22 and NRF-33 are impedance protected.  
 NRF-36 and NRF-45 are thermally protected.

## Dimensions

Dimensions are approximate and subject to change. Contact factory for certified dimensions.



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

**7** Stabilized, heat resistant, non-metallic impeller, its closed design improves operating efficiency

**8** NRF-36 and NRF-45 are available with three speed motor offering a wide range of hydraulic capabilities

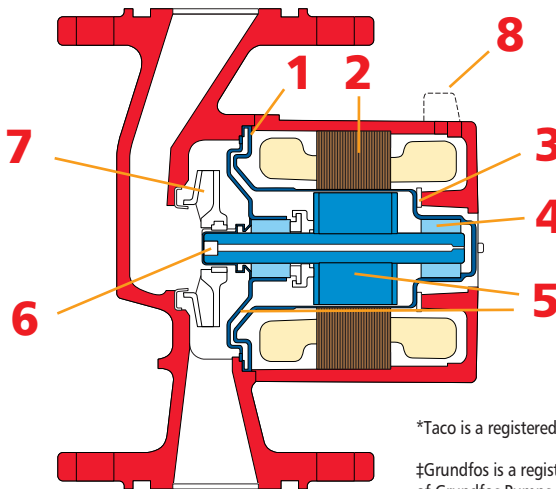
**2** Powerful Red Fox motor provides years of trouble-free operation

**3** One-piece, high-nickel stainless steel stator can isolate the stator from system fluid and maintains precision bearing alignment for longer bearing life

**4** Carbon bearings, diamond-like ceramic shaft and generous clearances are more resistant to lime, chloride and oxide build-up

**5** Face plate and rotor sleeve feature corrosion resistant stainless steel construction for longer life

**6** Self-cleaning particle shield protects the shaft and bearings from system start-up debris



\*Taco is a registered trademark of Taco, Inc.

‡Grundfos is a registered trademark of Grundfos Pumps Corp.



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