

### **Model 0013-IFC® Cartridge Circulator**

The 0013-IFC includes an Integral Flow Check, saving installation costs while improving system performance. The removable, spring-loaded IFC® replaces a separate in-line flow check and prevents gravity flow when the circulator is not operating. Available in Cast Iron or Stainless Steel construction.



Low-Lead  
Compliant

# Submittal Data Information Model 0013-IFC® Cartridge Circulator

Submittal Data # 101-086  
Supersedes: 01/12/15

Effective: 11/07/18

## Features

- Integral Flow Check (IFC®)
  - Prevents gravity flow
  - Eliminates separate in-line flow check
  - Reduces installed cost, easy to service
  - Improved performance vs. In-line flow checks
- Unique replaceable cartridge — Field serviceable
- Unmatched reliability - Maintenance free
- Quiet, efficient operation
- Direct drive-Low power consumption
- Self lubricating, No mechanical seal
- Standard high capacity output — Compact design
- Wide range of applications
- Cast Iron or St. Steel construction, Flanged

## Materials of Construction

Casing (Volute): Cast Iron or Stainless Steel  
Integral Flow Check:

- Body, Plunger ..... Acetal
- O-ring Seals..... EPDM
- Spring..... Stainless Steel

Stator Housing:..... Aluminum  
Cartridge:..... Stainless Steel  
Impeller: ..... Non-Metallic  
Shaft:..... Ceramic  
Bearings:..... Carbon  
O-Ring & Gaskets:..... EPDM

## Model Nomenclature

F – Cast Iron, Flanged  
SF –Stainless Steel, Flanged  
IFC – Integral Flow Check

## Performance Data

Max. Flow: 33 GPM  
Max. Head: 32 Feet  
Min. Fluid Temperature: 40°F (4°C)  
Max. Fluid Temperature: 230°F (110°C)  
Max. Working Pressure: 150 psi  
Connection Sizes:  
3/4", 1", 1-1/4", 1-1/2" Flanged

## Certifications & Listings

**UL** US LISTED FOR INDOOR USE ONLY

**NSF** Low-Lead Compliant Stainless Steel Model

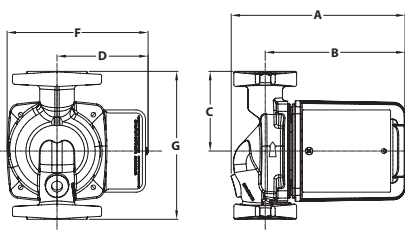
NSF Certified to NSF/ANSI 61, 372

## Application

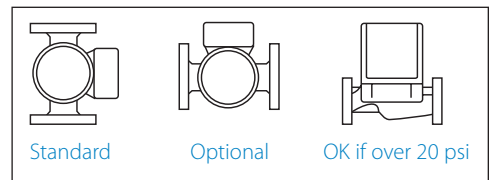
The 0013-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with 00° circulators on high head / high flow hydronic or radiant heating, hydro-air fan coils or heat exchangers and geothermal systems. By locating the removable, spring-loaded IFC inside the pump casing, a separate in-line flow check is eliminated, reducing installation costs. The reduced pressure drop of the IFC, increases the 0013 flow performance over in-line check valves. Both the IFC and cartridge are easily accessed for service instead of replacing the entire unit.

## Pump Dimensions & Weights

Models	Casing	A		B		C		D		F		G		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
0013-F3-1 IFC	Cast Iron	7-1/2	191	6-1/8	156	3-1/2	89	3-7/8	98	6	152	6-1/2	165	12.5	5.7
0013-SF3-IFC	St. Steel	7-1/2	191	6-1/8	156	3-1/2	89	3-7/8	98	6	152	6-1/2	165	11.5	5.2



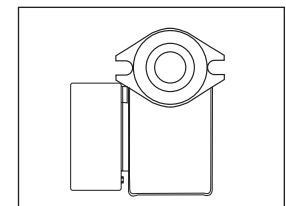
## Mounting Positions



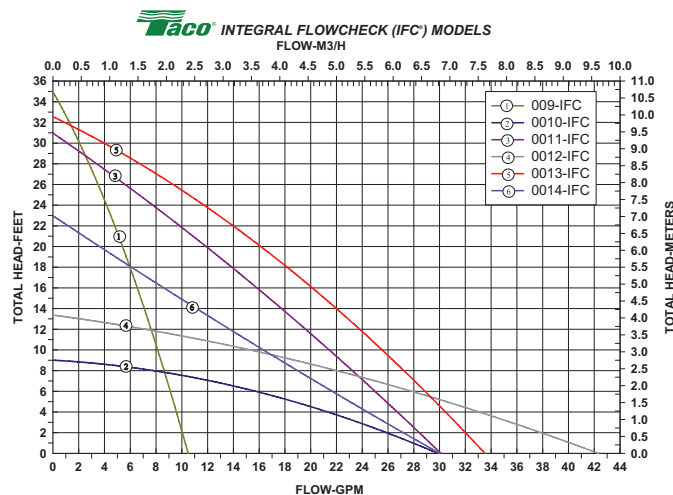
## Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
All Models	115	60	1	2.0	3250	1/6
Motor Type	Permanent Split Capacitor Impedance Protected					
Motor Options	220/50/1, 220/60/1, 230/60/1, 100/110/50/60/1					

## Flange Orientation



## Performance Field - 60Hz



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