



# Submittal Data Information

101-086

## Model 0013-IFC® Cartridge Circulator

Effective: January 12, 2015

Supersedes: September 15, 2014

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_

ITEM NO.	MODEL NO.	IMP. DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHAR.

### 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

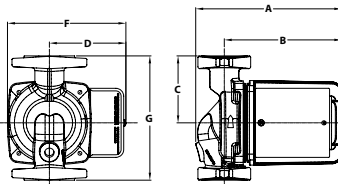


### Application

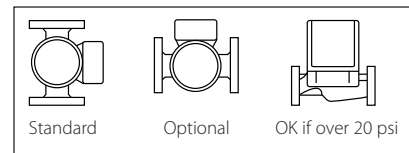
The 0013-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with 00° circulators on high head / high flow hydronic or radiant heating, hydro-air fan coils or heat exchangers and geothermal systems. By locating the removable, spring-loaded IFC inside the pump casing, 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	6-3/8	162	3-1/2	89	3-7/8	86	6	152	6-1/2	165	12.5	5.7
0013-SF3-IFC	St. Steel	7-1/2	191	6-3/8	162	3-1/2	89	3-7/8	86	6	152	6-1/2	165	11.5	5.2



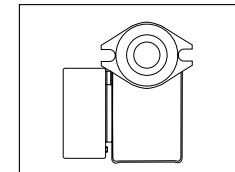
### Mounting Positions



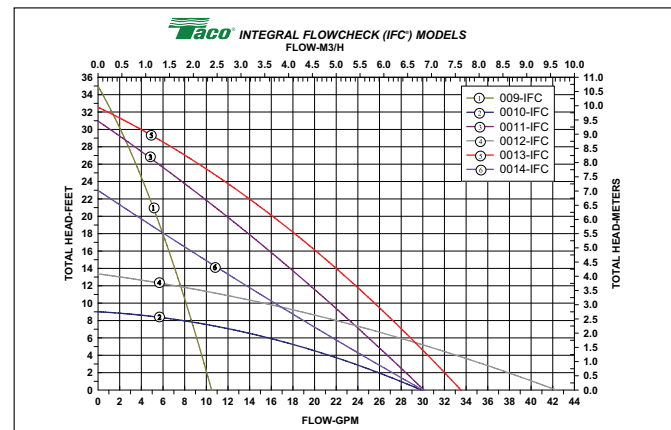
### Electrical Data

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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