

## Model 0013-IFC<sup>®</sup> Cartridge Circulator

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



# Submittal Data Information Model 0013-IFC® Cartridge Circulator

## 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, Bronze or Stainless Steel construction, Flanged

## Materials of Construction

Casing (Volute): Cast Iron, Bronze or 304 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  
BF – Bronze, Flanged  
SF – 304 Stainless Steel, Flanged  
IFC – Integral Flow Check

### Variations:

J – Bronze Cartridge with Cast Iron Casing

## Performance Data

Flow Range: 0 - 33 GPM  
Head Range: 0 - 32 Feet  
Minimum Fluid Temperature: 40°F (4°C)  
Maximum Fluid Temperature: 230°F (110°C)  
Maximum Working Pressure: 125 psi  
Connection Sizes: 3/4", 1", 1-1/4", 1-1/2" Flanged



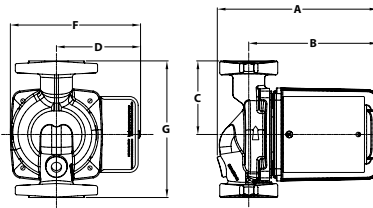
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## Application

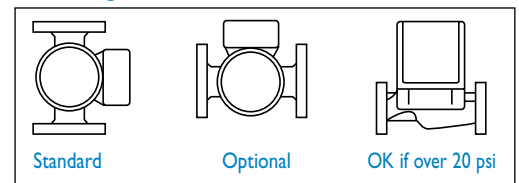
The 0013-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with 00® circulators on high head / high flow hydronic or radiant heating, hydro-air fan coils or heat exchangers and geothermal systems. By locating the removable, spring-loaded IFC inside the pump casing, 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

Model	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-I IFC	Cast Iron	7-1/2	191	6-3/8	162	3-1/2	89	3-7/8	98	6	152	6-1/2	165	12.5	5.7
0013-BF3-2 IFC	Bronze	7-1/2	191	6-3/8	162	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	6-3/8	162	3-1/2	89	3-7/8	98	6	152	6-1/2	165	11.5	5.2



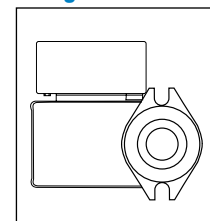
## Mounting Positions



## Electrical Data

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

## Flange Orientation



## Performance Field - 60Hz

