

## Model 005-IFC<sup>®</sup> Cartridge Circulator

The redesigned 005-IFC features a larger removable Integral Flow Check, designed to improve pump performance, simplify piping and reduce installation costs. The spring loaded IFC<sup>®</sup> replaces a separate in-line flow check to ensure protection against reverse flow and gravity flow. IFC is now available on all 00<sup>®</sup> circulators including Priority Zoning and Variable Speed control models.



# Submittal Data Information Model 005-IFC® Cartridge Circulator

## Features

- Integral Flow Check (IFC®)  
Simplifies piping  
Prevents reverse flow and gravity flow  
Eliminates separate in-line flow check  
Reduces installed cost  
Improves system performance  
Easy to service
- Unique replaceable cartridge-field serviceable
- Unmatched reliability-maintenance free
- Quiet, efficient operation
- Self lubricating, No mechanical seal
- Wide range of applications
- Cast Iron, Bronze or Stainless Steel construction
- Flanged connections

## Materials of Construction

- Casing (Volute): Cast Iron, Bronze or 304 Stainless Steel
- Integral Flow Check (IFC®):  
Body, Plunger....Acetal  
O-ring Seals.....EPDM  
Spring.....Stainless Steel
- Stator Housing: Steel  
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:

- Z – Zoning Circulator  
VR – Variable Speed Outdoor Reset  
VS – Variable Speed Set Point  
VV – Variable Speed Variable Voltage  
J – Bronze Cartridge with Cast Iron Casing

## Performance Data

- Flow Range: 0 - 13.5 GPM  
Head Range: 0 - 7.5 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



FOR INDOOR USE ONLY

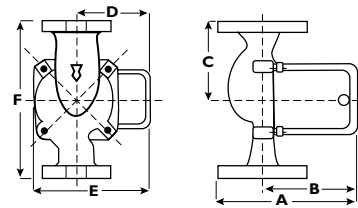
## Application

- Hydronic Heating/Cooling
- Radiant
- Indirect Water Heaters
- Hydro-Air Fan Coils
- Domestic Water Recirculation (Bronze / Stainless Steel)

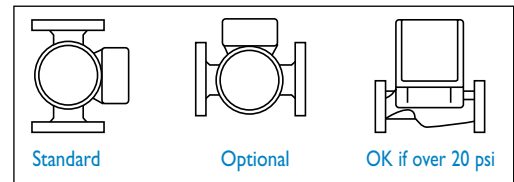
The 005-IFC is designed to simplify piping, reduce installation costs and improve system performance when zoning with 00® circulators. By locating the IFC inside the pump, a separate in-line flow check is eliminated. The low pressure drop of the IFC increases flow performance vs. in-line flow checks. Both the IFC and the cartridge are easily accessed for removal and service.

## Pump Dimensions & Weights

Model	Casing	A		B		C		D		E		F		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
005-F2-2 IFC	Cast Iron	5-5/8	143	4-1/8	105	3-3/16	81	2-15/16	75	5	127	6-3/8	162	8	3.6
005-F2-3 IFC	Cast Iron	5-3/8	137	4-1/8	105	3-3/16	81	2-15/16	75	5	127	6-3/8	162	8	3.6
005-BF2-1 IFC	Bronze	5-5/8	143	4-1/8	105	3-3/16	81	2-15/16	75	5	127	6-3/8	162	8	3.6
005-SF2-IFC	S. Steel	5-5/8	143	4-1/8	105	3-3/16	81	2-15/16	75	5	127	6-3/8	162	8	3.6



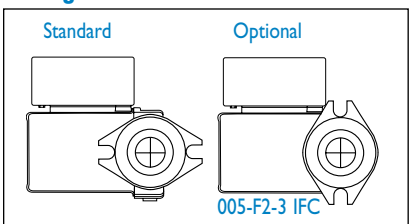
## Mounting Positions



## Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
Cast Iron	115	60	1	.52	3250	1/35
Bronze / SS	115	60	1	.54	3250	1/35
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

