



# Submittal Data Information

101-083

## Model 005-IFC® Cartridge Circulator

Effective: November 29, 2024

Supersedes: June 1, 2011

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

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

### 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 or Stainless Steel construction
- Flanged connections

### Materials of Construction

Casing (Volute): Cast Iron or 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  
SF – 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**

NSF® ≤ .25% Lead

Complies with California Health and Safety  
Code Section 116875 / AB1953  
and Vermont Act 193

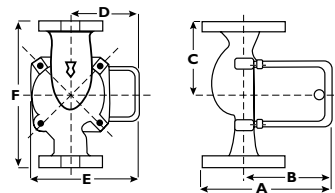
### Application

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

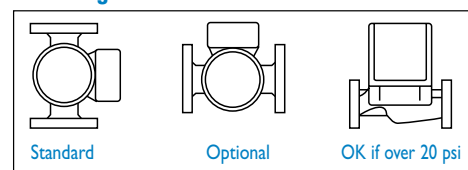
The 005-IFC is designed to simplify piping, reduce installation costs and improve system performance when zoning with 00® circulators. By locating the IFC inside the pump, a separate in-line flow check is eliminated. The low pressure drop of the IFC increases flow performance vs. in-line flow checks. 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-SF2-IFC	St. 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



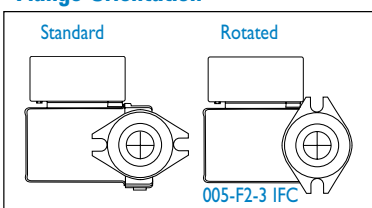
### Mounting Positions



### Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
Cast Iron	115	60	I	.52	3250	1/35
Stainless Steel	115	60	I	.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

