



Submittal Data Information

101-083

Model 005-IFC® Cartridge Circulator

Effective: June 1, 2011

Supersedes: October 17, 2008

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

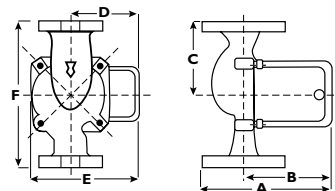
Application

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

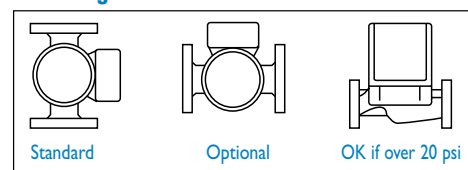
The 005-IFC is designed to simplify piping, reduce installation costs and improve system performance when zoning with 00® circulators. By locating the IFC inside the pump, a separate in-line flow check is eliminated. The low pressure drop of the IFC increases flow performance vs. in-line flow checks.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



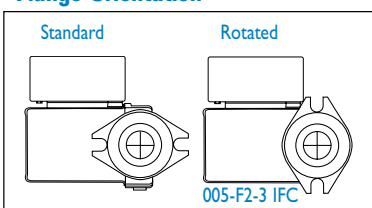
Electrical Data

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

