

Model 005-IFC® 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® replaces a separate in-line flow check to ensure protection against reverse flow and gravity flow. IFC is now available on all 00® circulators including Priority Zoning and Variable Speed control models.



Submission 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 construction, Flanged connections

Materials of Construction

Casing (Volute): Cast Iron or Bronze
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
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



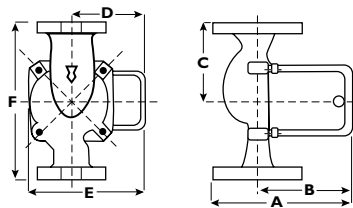
Application

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

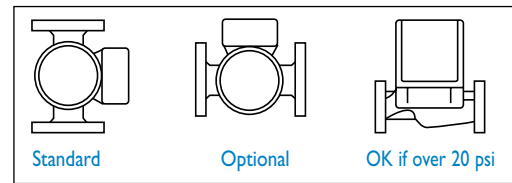
The 005-IFC is designed to simplify piping, reduce installation costs and improve system performance when zoning with 00® circulators. By locating the IFC inside the pump, a separate in-line flow check is eliminated. The low pressure drop of the IFC increases flow performance vs. in-line flow checks.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



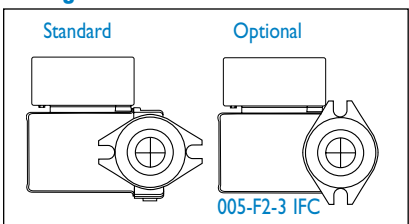
Mounting Positions



Electrical Data

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

