

Model 0013-IFC[®] Cartridge Circulator

The 0013-IFC now includes an Integral Flow Check, saving installation costs while improving system performance. The removable, spring-loaded IFC[®] 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.



Submission 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



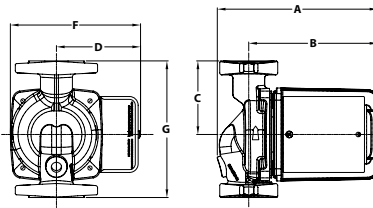
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Application

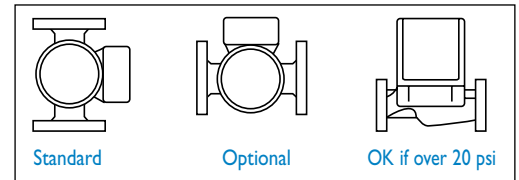
The 0013-IFC with an Integral Flow Check is designed to reduce installation costs when zoning with 00® circulators on high head / high flow hydronic or radiant heating, hydro-air fan coils or heat exchangers and geothermal systems. By locating the removable, spring-loaded IFC inside the pump casing, 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-F3-1 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



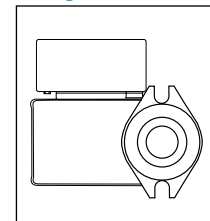
Mounting Positions



Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
All Models	115	60	1	2.0	3250	1/6
Motor Type	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

