

## 0012 & 0013 3-Speed Cartridge Circulators

The 0012 3-Speed circulator is designed for high flow / low head applications ideal for large BTU boilers, primary boiler loops and large recirculation systems. The 0013 3-Speed circulator is specifically designed for the wide range of high flow / high head requirements of today's hydronic heating systems. Their 3-Speed switching capability provides fine tuning control to meet system design conditions. The 0012 and 0013 deliver the highest starting torque in their class and include a removable, unibody Integral Flow Check (IFC<sup>®</sup>) that prevents gravity flow, reduces installation costs and improves pump performance. The Stainless Steel models can be used for open systems and potable water applications.



# Submittal Data Information

## 3-Speed Circulators (0012 & 0013)

Submittal Data # 101-166  
Supersedes: 07/30/14

Effective: 07/19/21

### Features

- 3-Speed Switch
- Fine tune to system requirements
- Highest performance & starting torque in class
- Heavy-Duty construction for longer life
- Removable high-flow Integral Flow Check (IFC®)
  - Prevents gravity flow
  - Reduces installation costs
  - Improves pump performance
- Replaceable cartridge design
- Quiet, efficient operation
- Self Lubricating, no mechanical seal
- Wide range of applications
- Cast Iron or St. Steel, flanged construction

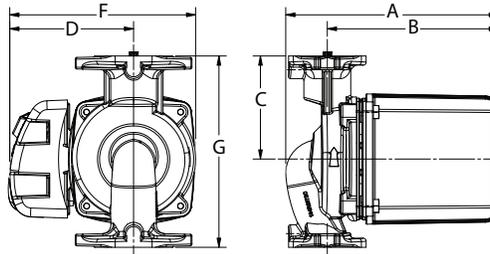
### Applications

The 0012 is designed for high flow/ low head, closed loop, hydronic systems. The 0013 is designed for high flow/ high head, closed loop hydronic systems. The Stainless Steel models can be used for open systems and potable water applications.

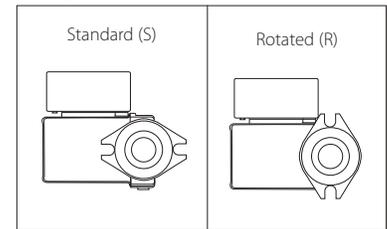
### Pump Dimensions & Weights

Models	Type	Flange Code	A		B		C		D		F		G		Ship Wt.	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
0012-MSF2-IFC	CI	S	8-7/16	214	6-15/64	158	4-1/4	107	4-3/64	103	6-9/64	156	8-1/2	216	12	5.5
0012-MSSF2-IFC	SS	S													15.2	6.9
0013-MSF2-IFC	CI	R	7-9/16	192	6-5/32	156	3-1/2	89	4-3/64	103	6-9/64	156	6-1/2	165	11	5
0013-MSSF2-IFC	SS	R														

Dimensions and weights are approximate.



### Flange Orientation



### Materials of Construction

Casing:	Cast Iron or St. Steel
Integral Flow Check (IFC®):	Acetal & Stainless Steel
Stator Housing:	Aluminum
Cartridge:	Stainless Steel
Impeller:	Non-Metallic
Shaft:	Ceramic
Bearings:	Ceramic
O-Ring & Gaskets:	EPDM

### Performance Data

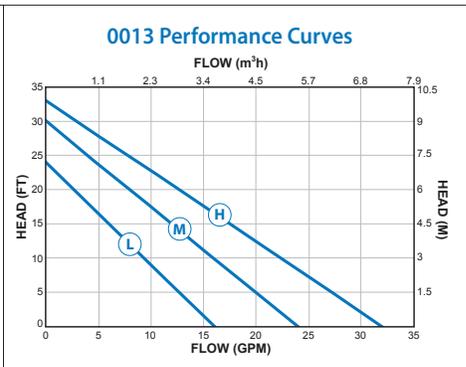
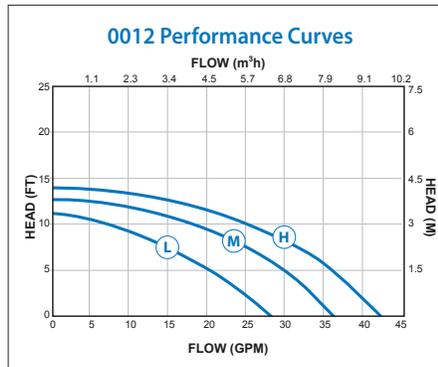
	0012	0013
Max. Flow (GPM):	42	32
Max. Head (FT):	14	33
Min. Fluid Temperature:	40°F (4°C)	
Max. Fluid Temperature:	210°F (98°C)	
Max. Working Pressure:	125 psi	
Flanged Connection Sizes:	3/4", 1", 1-1/4", 1-1/2"	

### Electrical Data

Model	Volts	Hz	Ph	Amps	Watts			RPM (Speed 3)	HP
					Speed 1	Speed 2	Speed 3		
0012	115	60	1	1.65	130	170	195	3250	1/8
0013	115	60	1	1.95	140	200	235	3250	1/8
Motor Type	Permanent Split Capacitor Thermally Protected								

### Certifications & Listings

**FOR INDOOR USE ONLY**  
**Low-Lead Compliant**  
Certified to NSF/ANSI 372



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