Applications

GPD series circulator pumps are specifically designed for heating systems or cooling system, boiler/hydronic heating, ground source heat pumps, air to water heat pump, solar water heating, and hot-water recirculation. The pumps can also be used to supply water circulation for cooling air-conditioning systems.

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Running Conditions

- **Ambient temperature : Max. 104°F (40°C)**
- **Liquid temperature: 36°F (2°C) ~ 230°F (110°C)**
- **System pressure : Max. 145 psi.**
- **To avoid damage to the pump bearing , the inlet minimum water pressure should be maintained as follow:**

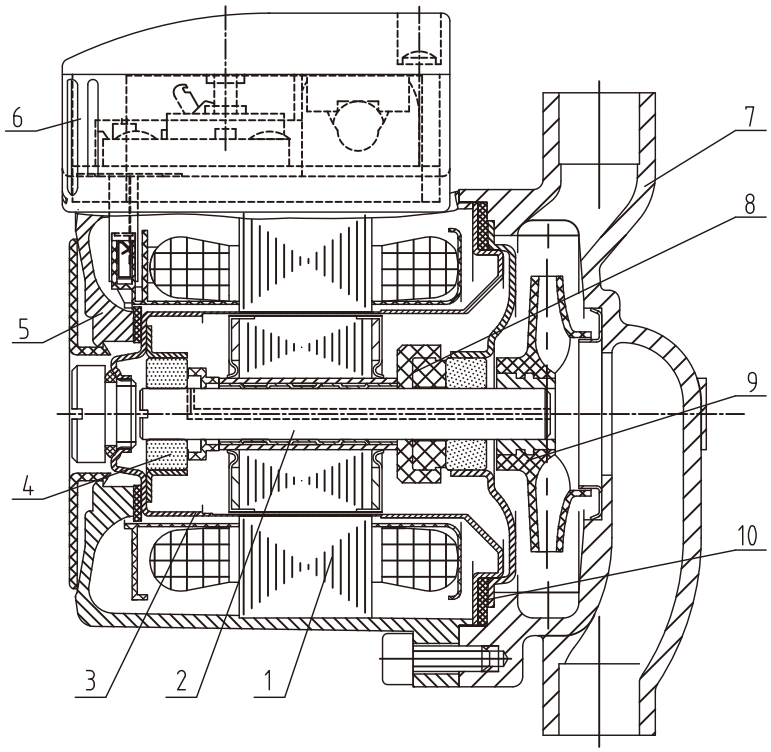
Liquid Temperature	185°F (85°C)	194°F (90°C)	230°F (110°C)
Entrance Pressure	2 ft (0.6m) Head	10 ft (3m) Head	33 ft (10m) Head
	0.7psi (0.05bar)	4psi (0.28bar)	14.5psi(1bar)

- **Pumped liquids are designed for potable or clean water not containing any solid particles, fibers and mineral oil; and non-corrosive and non-explosive liquids.**
- **The ambient temperature for standard pumps with a permissible liquid temperature from 36°F(2°C) to 230°F (110°C) should always lower than the liquid temperature, as otherwise condensation may form in the stator housing.**

Structure of Pump

- The main parts of pump include: pump body, impeller, stator, rotor, shielded sets, and vent plug.
- Pump does not use mechanical seal ; stator and rotor are sealed with stainless steel. The overall pump structure is sealed with two heat-resistant rubber gaskets to avoid leakage.
- The pump bearing is lubricated and cooled by the pumped water.
- The motor is class H with thermal protection.

Structural Diagram



No.	Spare Parts	Material
1	Stator	Cold rolled silicon steel plate
2	Shaft	Ceramic
3	Shield Cover	Stainless steel
4	Bearing	Ceramic
5	Stator Housing	Aluminium
6	Terminal Box	Composite
7	Pump Housing(Volute)	Cast iron/bronze/stainless steel
8	Thrust Bearing	Graphite
9	Impeller	Composite
10	O-ring and gaskets	EPDM Rubber

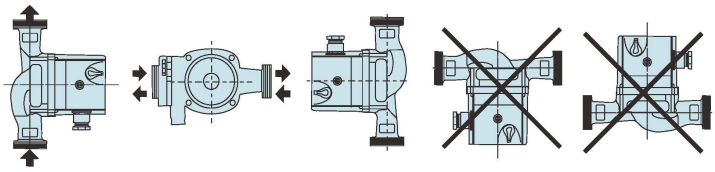
Product Selection

- **Pump model selection is based on the requirement of flow, head and power source.**
- **The pipe connection is flange**s standard.

- **Cast iron type is generally considered for the closed systems pumping water or water/glycol mixtures, such as boil heating and radiant floor heating; etc. However, when water condition is not compatible with cast iron , we recommend bronze or stainless steel.** You can use in open circuit if anti-corrosion is added.
- **Bronze and stainless steel types are considered for open system pumping portable water such as hot-water recirculation and domestic hot-water heating; etc.**

Installation

Pump must be always installed with horizontal shaft.
GPD series pumps are intended for indoor use only.



Product code

GPD 15 – 6 S ( ) F C
1 2 3 4 5 6 7

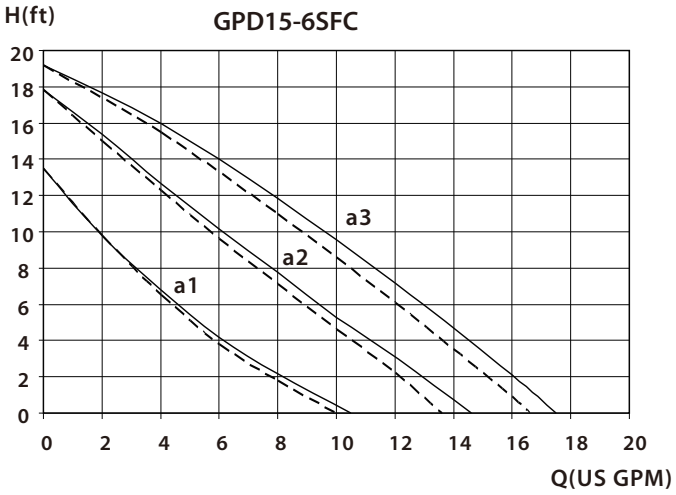
1. **GPD- - - - -GPD series pump**
2. **15- - - - - - -Diameter of the suction**
3. **6- - - - - - - -The maximum head of pump (m)**
4. **S- - - - - - - -3 speed**
5. **( ) - - - - - - -Pump material**
   ( ): Cast iron (no letter = cast iron)
   B: Bronze
   N: Stainless steel
6. **F- - - - - - - -Pipe connection style:**
   F: Flange
   FR: Vertical flange
7. **C- - - - - - -- -With check valve**

Model Type: GPD15-6SFC

Note:

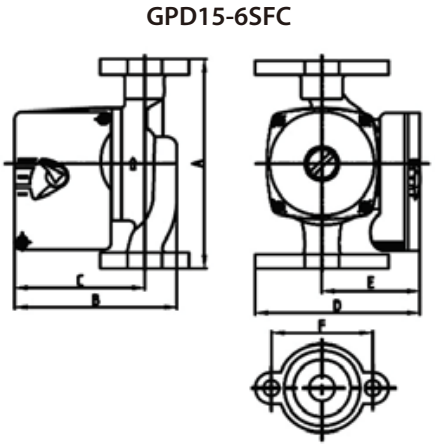
1. Motor : 2-pole single-phase
2. Liquid temperature: 36°F ~ 230°F (2°C ~110°C)
3. Max. system pressure: 145psi (1MPa)
4. Certification : c UL us LISTED

Performance Curve



"——"without check valve, "- - - -"with check valve.

Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-6SFC	17	19	115	0.9/0.7/0.5	100/70/55	10uf/250V	a3/a2/a1	Closed

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-6SFC	6 1/2	5 2/5	4	5 1/16	3	3 5/32	GF 15 flange (2) 1/2" dia. bolt holes	7.25

Les Fournaises T.J.
324 Rue Giguère, Saint-Jules QC G0N 1R0
Tel: 418-397-0114

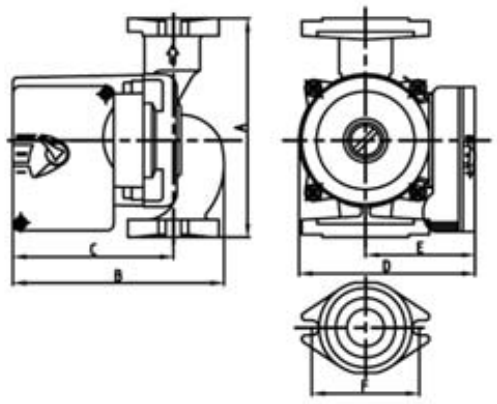
Model Type: GPD25-10SFC

Note:

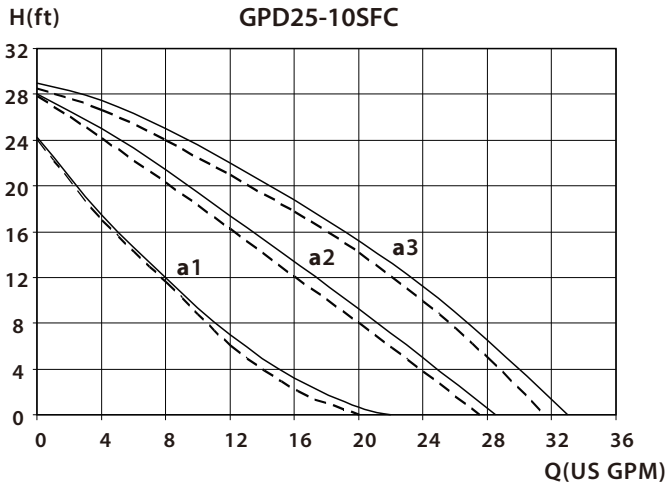
1. Motor : 2-pole single-phase
2. Liquid temperature: 36°F ~ 230°F (2°C ~110°C)
3. Max. system pressure: 145psi (1MPa)
4. Certification : c UL us LISTED

Installation Drawing

GPD25-10SFC



Performance Curve



"——"without check valve, "- - - -"with check valve.

Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD25-10SFC	32	30	115	1.6	185/170/150	20uf/450V	a3/a2/a1	Closed

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD25-10SFC	6 1/2	6	4 3/4	5 5/16	3 1/4	3 5/32	GF 25 flange (2) 1/2" dia. bolt holes	11.25