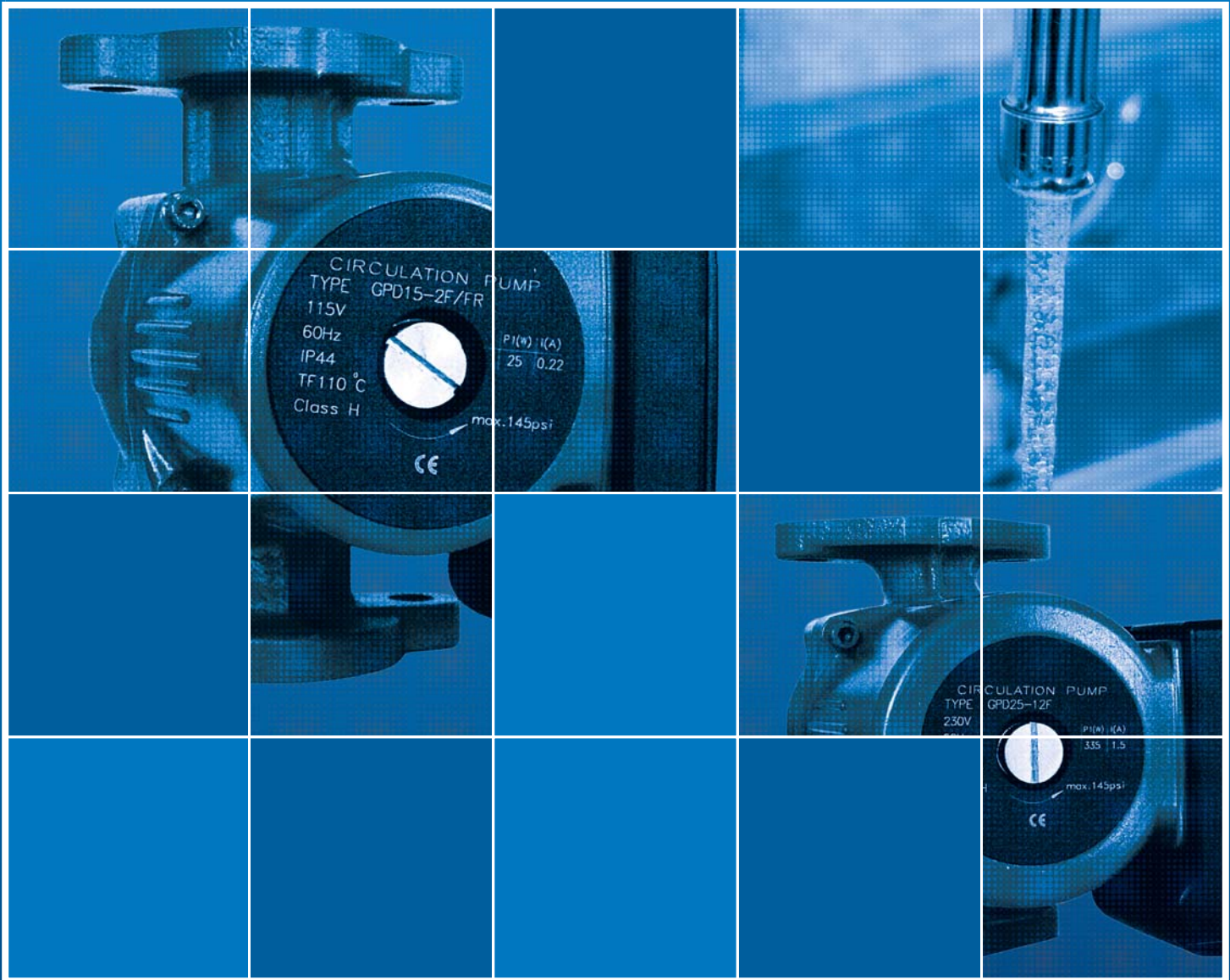


GPD Series Circulator Pump



**ISO 9001
CERTIFIED**

RoHS

CE **c** **UL** **US**

Syltento



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Applications

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



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 NHP 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)

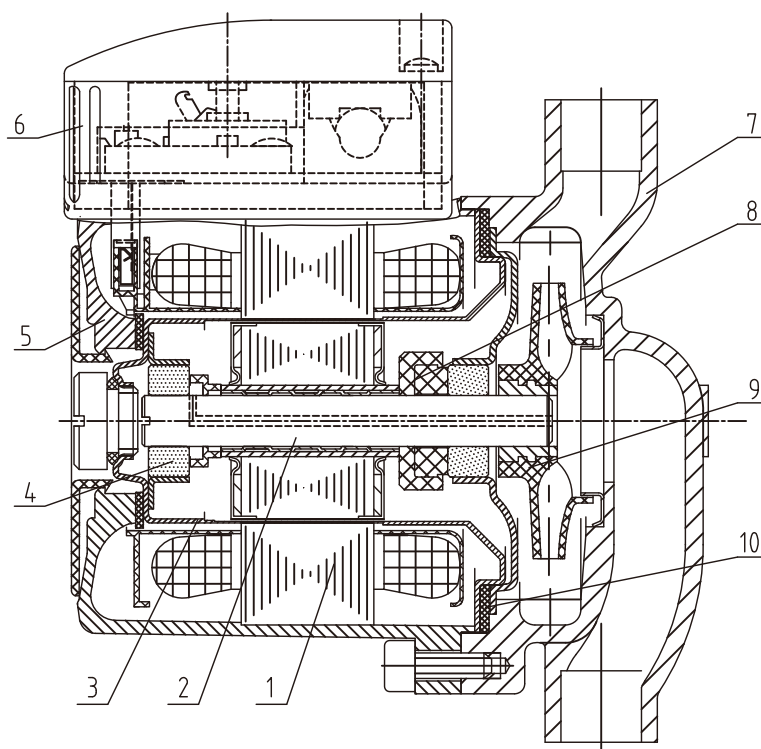
- Pumped liquids are designed for potable or clean water not containing any solid particles, fibers and mineral oil; and non-corrosive and non-explosive liquids.
- The ambient temperature for standard pumps with a permissible liquid temperature from 36°F(2°C) to 230°F (110°C) should always lower than the liquid temperature, as otherwise condensation may form in the stator housing (except for Model GPD25-12F while the highest liquid temperature is 150°F(66°C).

Note: for pumps with timer the maximum liquid temperature is 150°F(66°C)

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 available pipe connections include flange, sweat or union connection. Custom made connection is also available upon request.
- 3 different pump body materials are offered for different applications:
 - Cast iron type is generally considered for the closed systems pumping water or water/glycol mixtures, such as boiler heating and radiant floor heating; etc. However, when water condition is not compatible with cast iron, we recommend bronze or stainless steel.
 - 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:								
2: 1/2" Sweat								
4: 3/4" Sweat								
4P: 3/4" male x female connection								
F: Flange								
FR: Vertical flange								
U: Union								
7. C-----With check valve								

Systemflo GPD Series

			2 :1/2" Sweat	4: 3/4" Sweat	F :Flange	U :Union
Systemflo Pump Code	Voltage	Power (w)	Connection		Pump Length (In.)	
GPD15-2F	115V	25	Flange		6 1/2	
GPD15-2FR	115V	25	Flange		6 1/2	
GPD15-4SFC	115V or 230V	85	Flange		6 1/2	
GPD15-4SFRC	115V or 230V	85	Flange		6 1/2	
GPD15-6SFC	115V or 230V	100	Flange		6 1/2	
GPD15-6SFRC	115V or 230V	100	Flange		6 1/2	
GPD15-10F	115V or 230V	120	Flange		6 1/2	
GPD25-7.5SFC	115V or 230V	185	Flange		6 1/2	
GPD25-10SFC	115V or 230V	200	Flange		6 1/2	
GPD25-12F	115V or 230V	335	Flange		6 1/2	
GPD25-12U	115V or 230V	230	Union		7 1/6	
GPD40-4SFC	115V or 230V	200	Flange		8 1/2	
GPD40-7.5SFC	115V or 230V	230	Flange		8 1/2	
GPD50-4SF	115V or 230V	200	Flange		8 1/2	
GPD50-7.5F	115V or 230V	230	Flange		8 1/2	
GPD25-12BF	115V or 230V	335	Flange		6 1/2	
GPD40-4SBFC	115V or 230V	200	Flange		8 1/2	
GPD40-7.5SBFC	115V or 230V	230	Flange		8 1/2	
GPD15-2B2	115V	25	1/2" Sweat		5	
GPD15-2B4	115V	25	3/4" Sweat		6 3/8	
GPD15-2BU2C(sweat+union)	115V	25	1/2" Sweat + Union		6 1/2	
GPD15-2BU4C(sweat+union)	115V	25	3/4" Sweat + Union		7 3/4	
GPD15-4B2	115V or 230V	85	1/2" Sweat		5	
GPD15-4B4	115V or 230V	85	3/4" Sweat		6 3/8	
GPD15-4BU2C	115V or 230V	85	1/2" Sweat + Union		6 1/2	
GPD15-4BU4C	115V or 230V	85	3/4" Sweat + Union		7 3/4	
GPD25-7.5SBFC	115V or 230V	200	Flange		6 1/2	
GPD25-10SBFC	115V or 230V	200	Flange		6 1/2	
GPD15-2NU4P	115V	25	3/4" Male & Female		5 7/16	
GPD15-3.5SNFC	115V or 230V	65	Flange		6 1/2	
GPD15-3.5SNUC	115V or 230V	65	Union		5 7/8	
GPD15-5.5SNFC	115V or 230V	85	Flange		6 1/2	
GPD15-5.5SNUC	115V or 230V	85	Union		5 7/8	

	MATERIAL			
		B	N	C
Systemflo Pump Code	Cast Iron	Bronze	Stainless Steel	Check Valve
GPD15-2F	●			
GPD15-2FR	●			
GPD15-4SFC	●			●
GPD15-4SFRC	●			●
GPD15-6SFC	●			●
GPD15-6SFRC	●			●
GPD15-10F	●			
GPD25-7.5SFC	●			●
GPD25-10SFC	●			●
GPD25-12F	●			
GPD25-12U	●			
GPD40-4SFC	●			●
GPD40-7.5SFC	●			●
GPD50-4SF	●			
GPD50-7.5F	●			
GPD25-12BF		●		
GPD40-4SBFC		●		●
GPD40-7.5SBFC		●		●
GPD15-2B2		●		
GPD15-2B4		●		
GPD15-2BU2C(sweat+union)		●		●
GPD15-2BU4C(sweat+union)		●		●
GPD15-4B2		●		
GPD15-4B4		●		
GPD15-4BU2C		●		●
GPD15-4BU4C		●		●
GPD25-7.5SBFC		●		●
GPD25-10SBFC		●		●
GPD15-2NU4P			●	
GPD15-3.5SNFC			●	●
GPD15-3.5SNUC			●	●
GPD15-5.5SNFC			●	●
GPD15-5.5SNUC			●	●

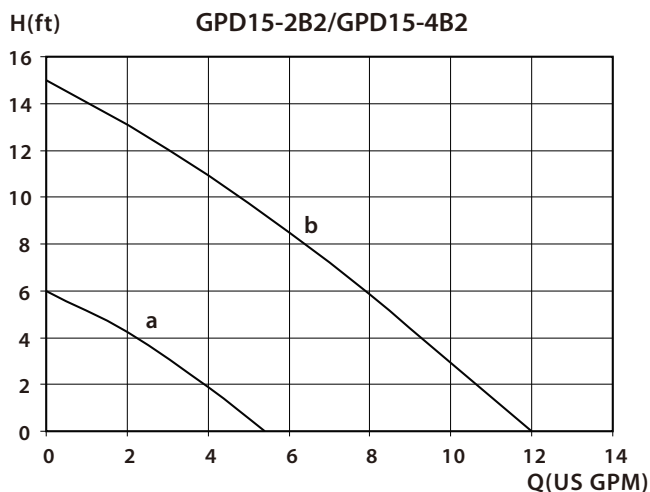
Model Type: GPD15-4B2, GPD15-2B2



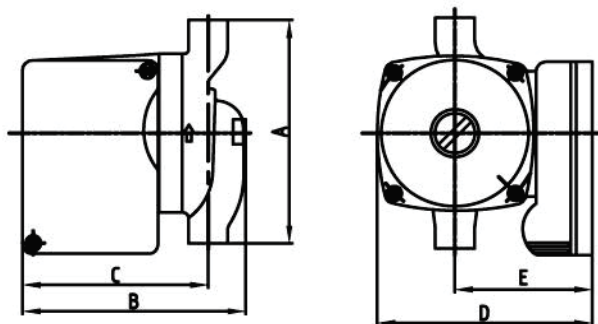
Note:

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

Performance Curve



Installation Drawing: 1/2"sweat



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2B2	5.5	6	115	0.22	25	2uf/450V	a	open
GPD15-4B2	12	15	115	0.74	85	10uf/250V	b	open
			230	0.37	85	2uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2B2	5	5	4	4 3/4	3		1/2" sweat	5.5
GPD15-4B2								

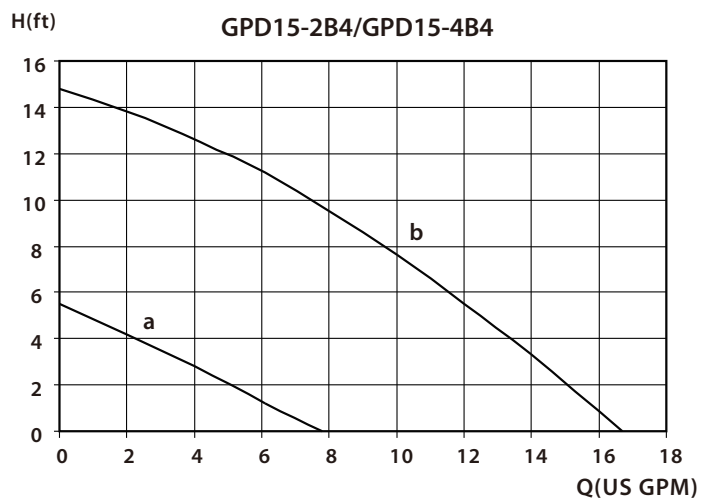
Model Type: GPD15-2B4, GPD15-4B4



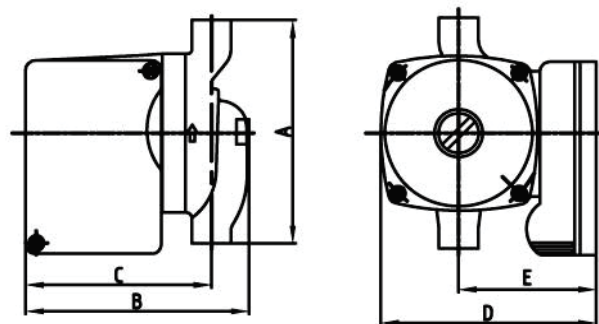
Note:

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

Performance Curve



Installation Drawing: 3/4" sweat



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Volt(s)(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2B4	8	6	115	0.22	25	2uf/450V	a	open
GPD15-4B4	16	15	115	0.74	85	10uf/250V	b	open
			230	0.37	85	2uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2B4	6 3/8	5 1/8	4	4 7/8	3		3/4" sweat	6
GPD15-4B4								

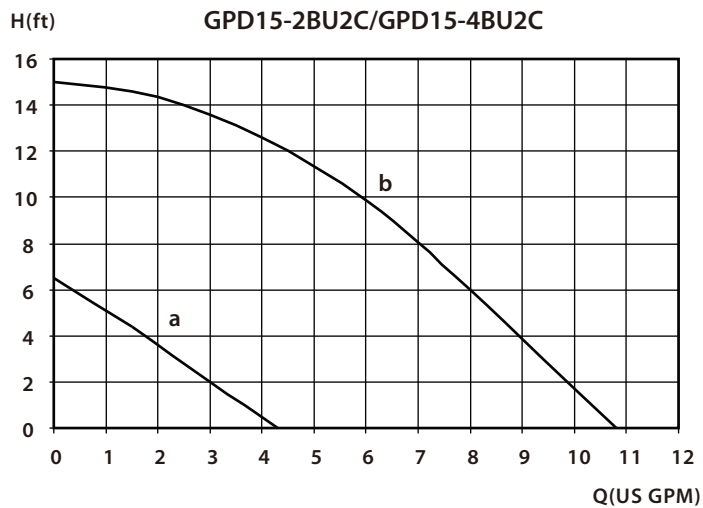
Model Type: GPD15-2BU2C, GPD15-4BU2C



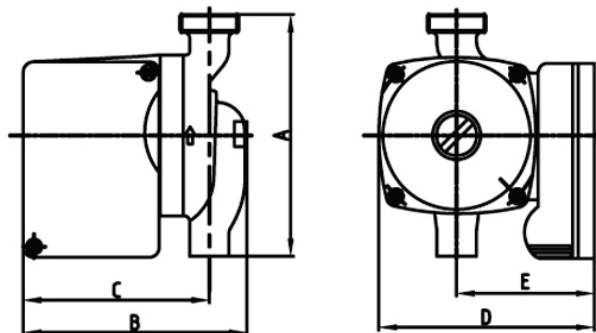
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2BU2C	4.2	6.5	115	0.22	25	2uf/450V	a	open
GPD15-4BU2C	10.5	15	115	0.74	85	10uf/250V	b	open
			230	0.37	85	2uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2BU2C	6 1/2	5	4	4 3/4	3		1/2" sweat + union	6 1/2
GPD15-4BU2C								

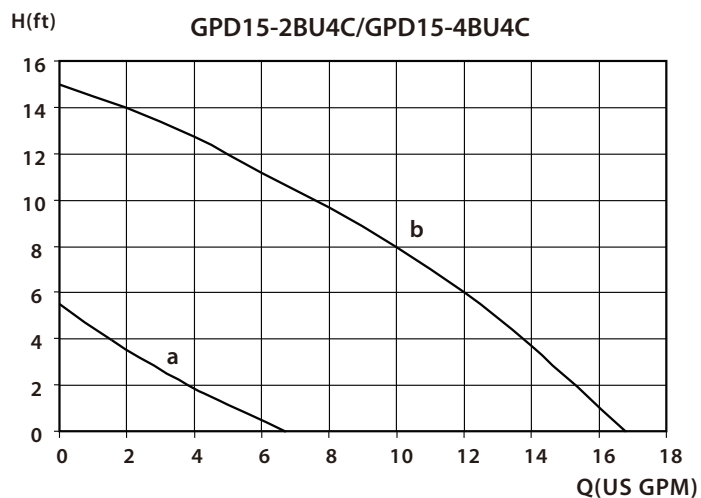
Model Type: GPD15-4BU4C, GPD15-2BU4C



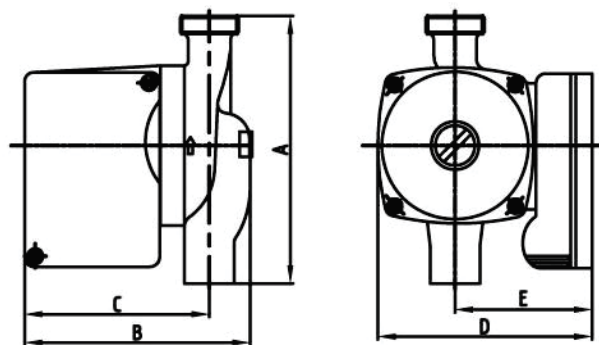
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Volt(s)(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2BU4C	6.5	6.5	115	0.22	25	2uf/450V	a	open
GPD15-4BU4C	17	15	115	0.74	85	10uf/250V	b	open
			230	0.37	85	2uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2BU4C	7 3/4	5 1/4	4	4 3/4	3		3/4" sweat + union	7
GPD15-4BU4C								

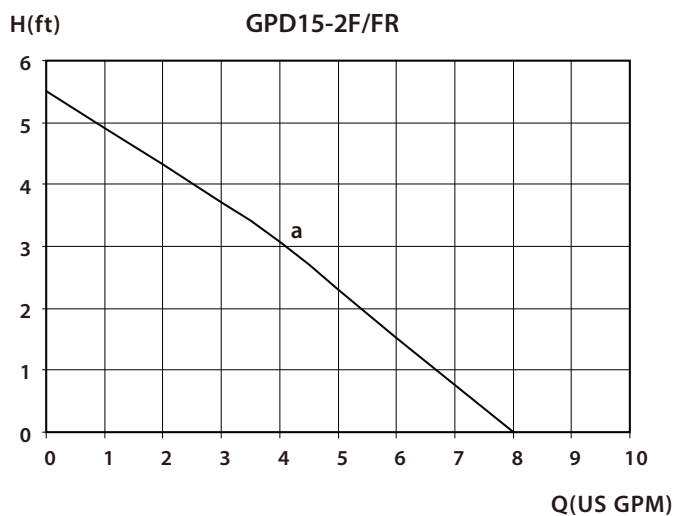
Model Type: GPD15-2F/FR



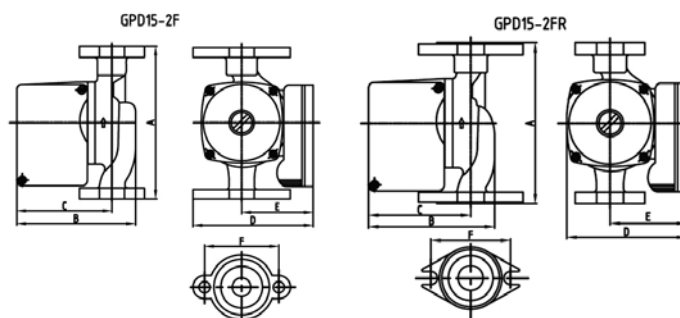
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2F/FR	8	5.5	115	0.22	25	2uf/450V	a	Closed

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2F	6 1/2	5 2/5	4	5 1/16	3	3 5/32	GF 15 flange (2) 1/2" dia. bolt holes	7
GPD15-2FR	6 1/2	6	4	4 7/8	3	3 5/32		

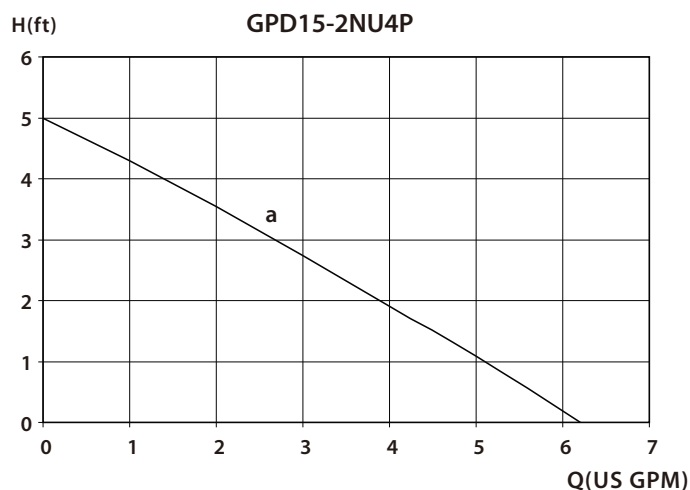
Model Type: GPD15-2NU4P



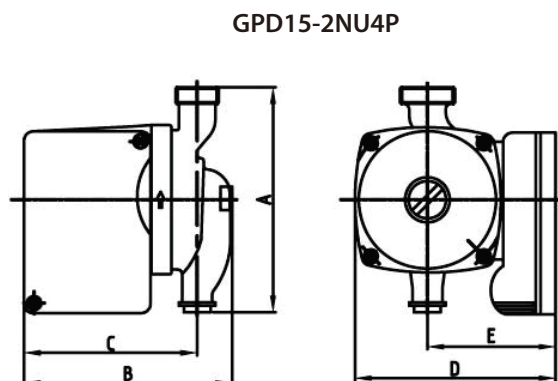
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Volt(s)(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-2NU4P	6	5	115	0.22	25	2uf/450V	a	Open

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-2NU4P	5 7/16	5	4	5 3/8	3		3/4" Male & Female	5

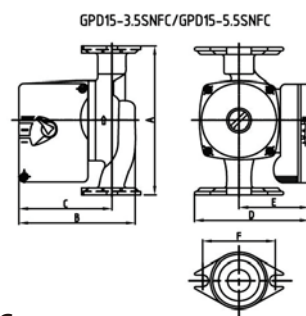
Model Type: GPD15-5.5SNFC, GPD15-3.5SNFC



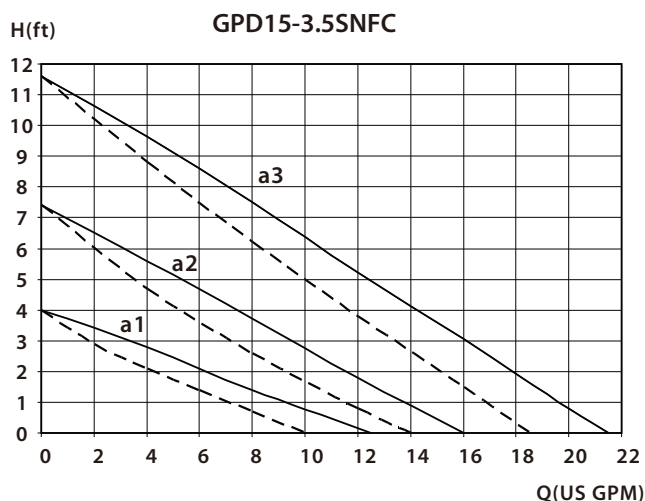
Note:

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

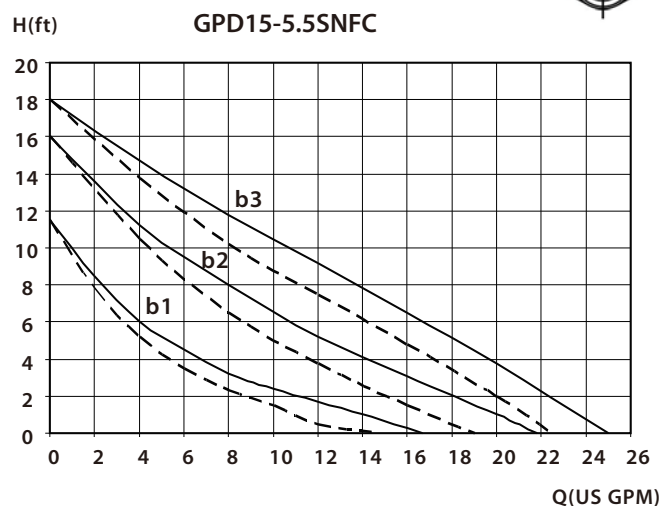
Installation Drawing



Performance Curve



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



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Voltis(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-3.5SNFC	21	12	115	0.56/0.44/0.3	65/50/32	8uf/250V	a3/a2/a1	open
			230	0.28/0.22/0.15	65/50/32	2uf/450V		
GPD15-5.5SNFC	25	18	115	0.74/0.6/0.44	85/60/40	10uf/250V	b3/b2/b1	open
			230	0.37/0.3/0.22	85/60/40	2.5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-3.5SNFC	6 1/2	5	4 1/8	4 7/8	3	3 1/8	GF 15 flange (2) 1/2" dia. bolt holes	6
GPD15-5.5SNFC								

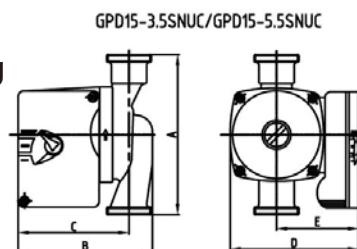
Model Type: GPD15-5.5SNUC, GPD15-3.5SNUC



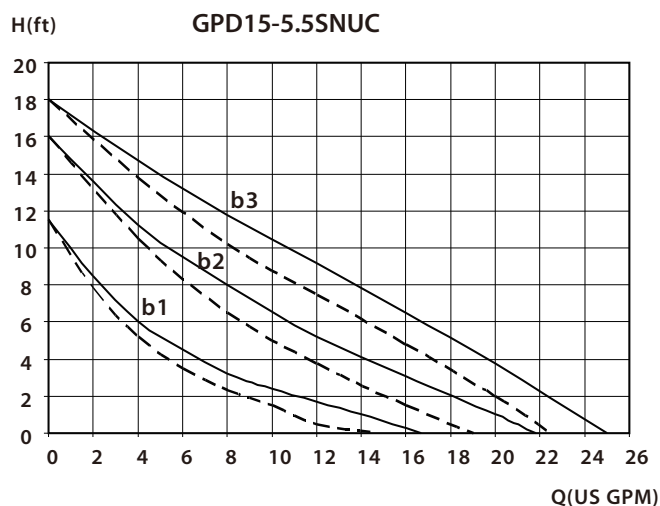
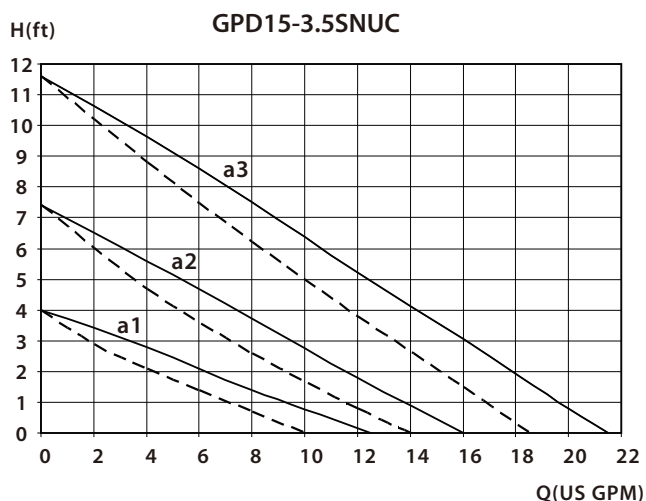
Note:

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

Installation Drawing



Performance Curve



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Volt(s)(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-3.5SNUC	21	12	115	0.56/0.44/0.3	65/50/32	8uf/250V	a3/a2/a1	open
			230	0.28/0.22/0.15	65/50/32	2uf/450V		
GPD15-5.5SNUC	25	18	115	0.74/0.6/0.44	85/60/40	10uf/250V	b3/b2/b1	open
			230	0.37/0.3/0.22	85/60/40	2.5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-3.5SNUC	5 7/8	5	4 1/8	4 3/4	3		union Gu125	5.4
GPD15-5.5SNUC								

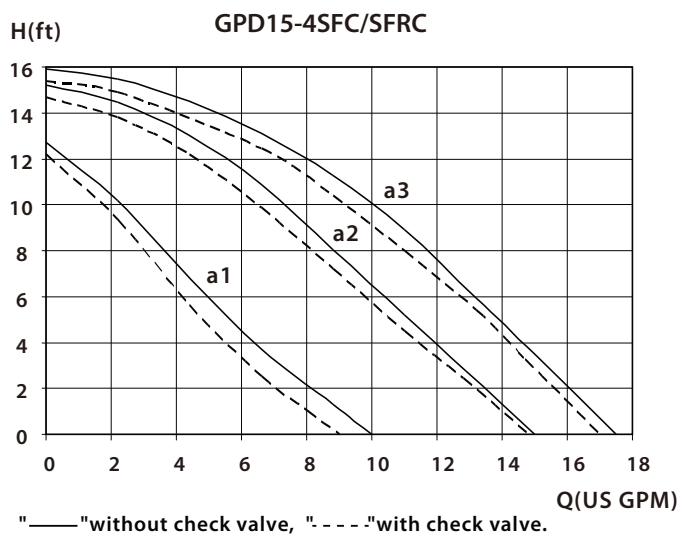
Model Type: GPD15-4SF(R)C



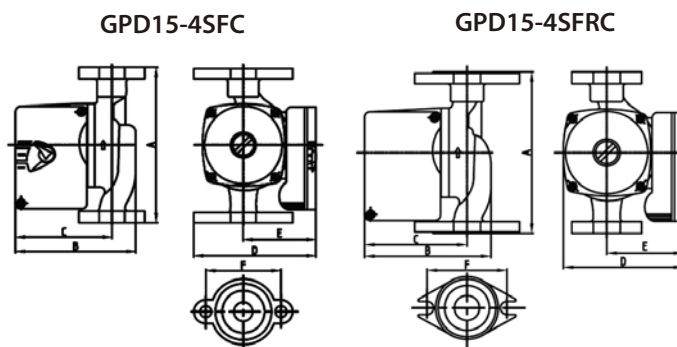
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-4SFC/SFRC	17.5	15.5	115	0.74/0.6/0.44	85/60/40	10uf/250V	a3/a2/a1	Closed
			230	0.37/0.3/0.22	85/60/40	2uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-4SFC	6 1/2	5 2/5	4	5 1/16	3	3 5/32	GF 15 flange (2)	7 1/4
GPD15-4SFRC	6 1/2	6	4	4 7/8	3	3 5/32	1/2" dia. bolt holes	

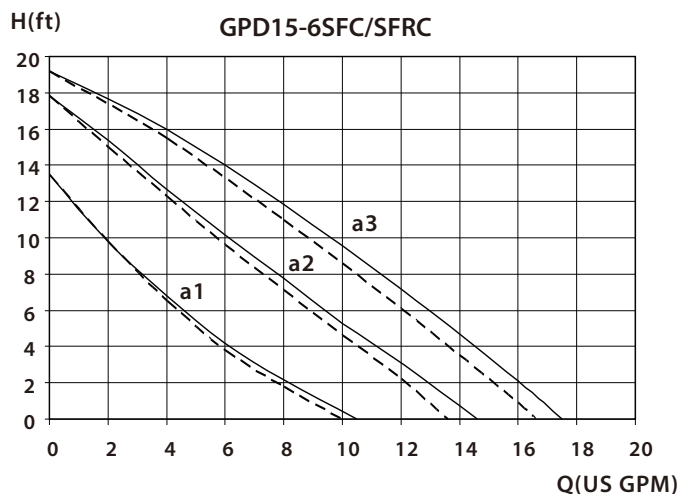
Model Type: GPD15-6SF(R)C



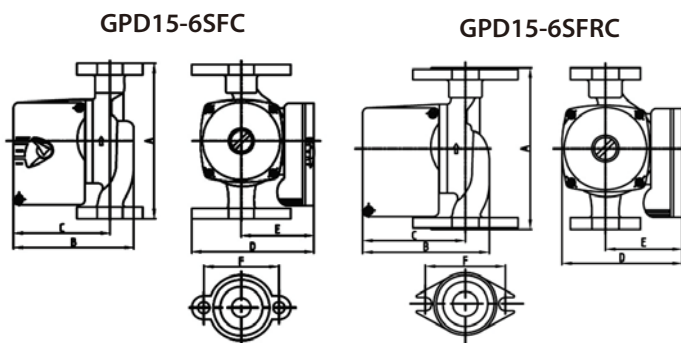
Note:

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

Performance Curve



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/SFRC	17	19	115	0.9/0.7/0.5	100/70/55	10uf/250V	a3/a2/a1	Closed
			230	0.45/0.35/0.25	100/70/55	2uf/450V		

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 1/4
GPD15-6SFRC	6 1/2	6	4	4 7/8	3	3 5/32		

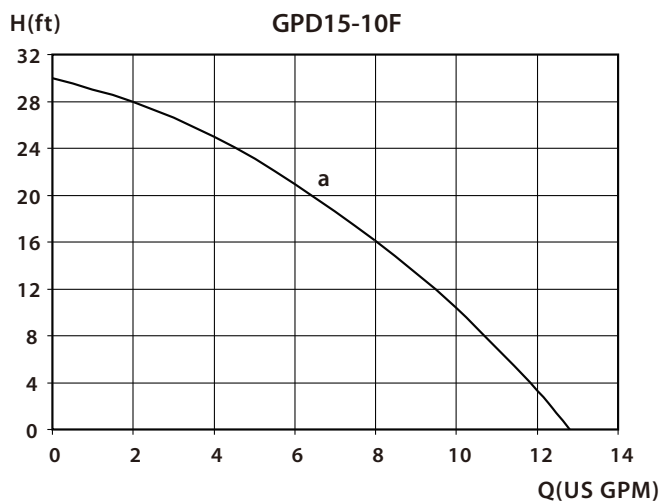
Model Type: GPD15-10F



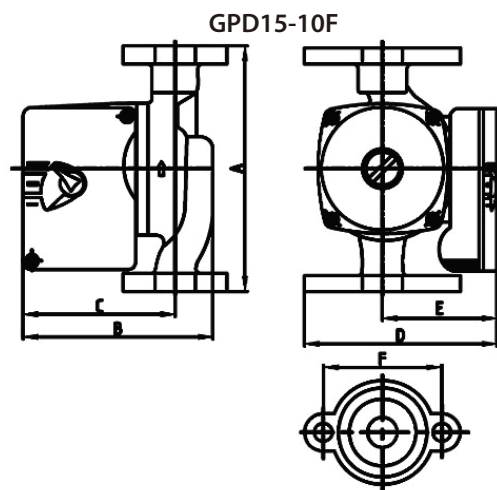
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD15-10F	12	31	115	1.0	120	10uf/250V	a	Closed
			230	0.5	120	3uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD15-10F	6 1/2	5 3/8	4	5 1/16	3	3 5/32	GF 15 flange (2) 1/2" dia. bolt holes	7 1/4

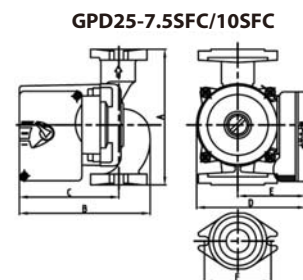
Model Type: GPD25-10SFC, GPD25-7.5SFC



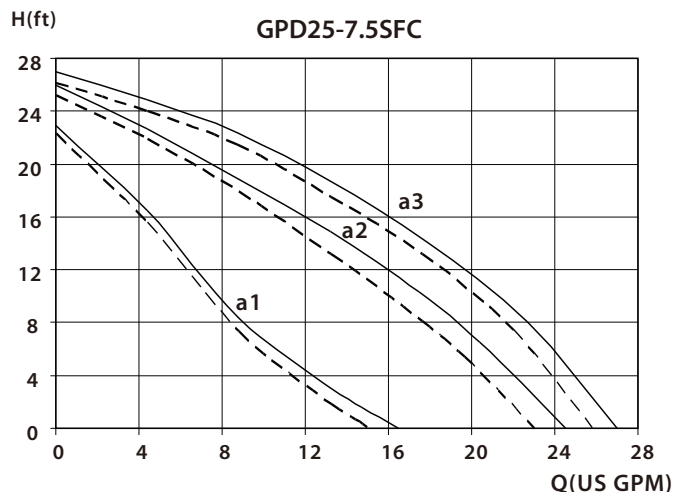
Note:

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

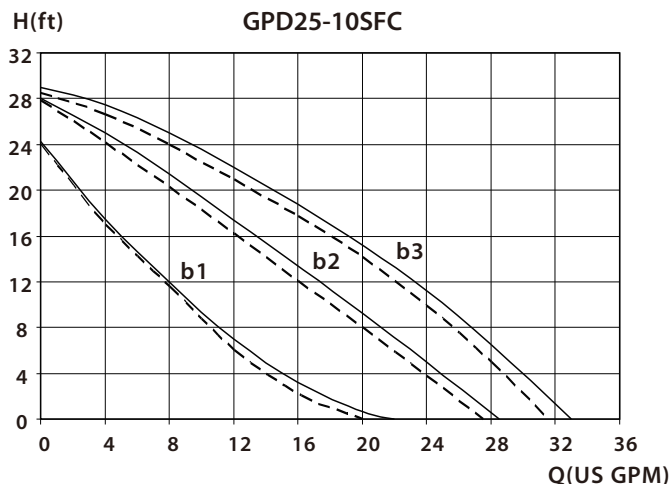
Installation Drawing



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
GPD25-7.5SFC	27	27	115	1.6	185/170/150	20uf/450V	a3/a2/a1	Closed
			230	0.8	185/170/150	5uf/450V		
GPD25-10SFC	32	30	115	1.6	200/190/135	20uf/200V	b3/b2/b1	Closed
			230	0.6	200/190/135	5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD25-7.5SFC	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 1/4
GPD25-10SFC								

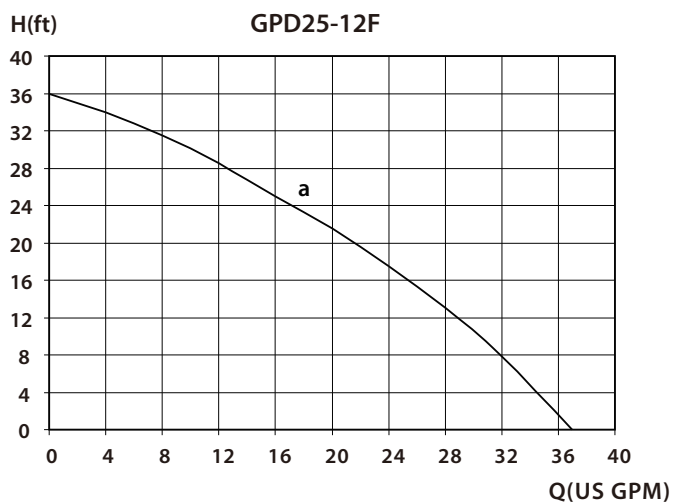
Model Type: GPD25-12F



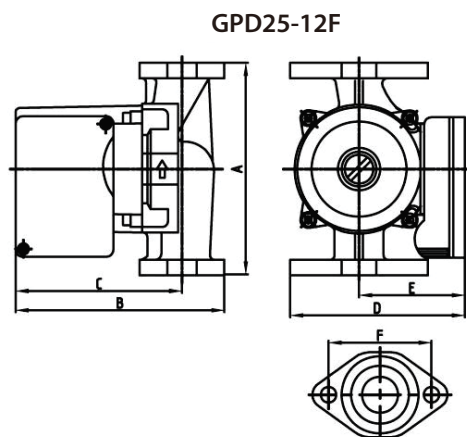
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD25-12F	36	36	230	1.5	335	6uf/450V	a	Closed

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD25-12F	6 1/2	6 3/8	5 1/16	5 3/8	3 1/4	3 5/32	GF 15 flange (2) 1/2" dia. bolt holes	12 1/2

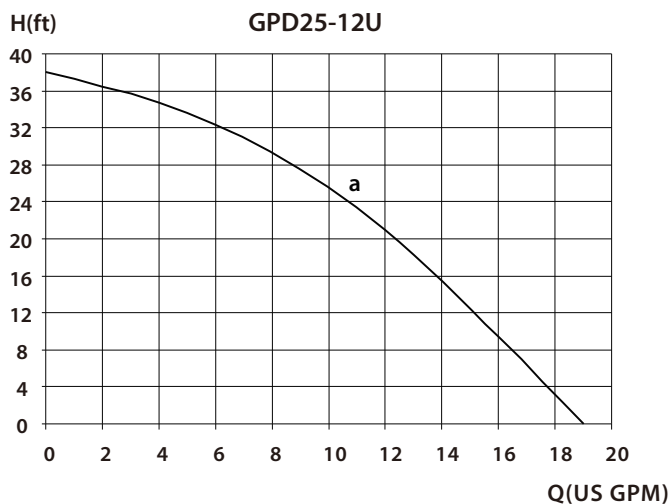
Model Type: GPD25-12U



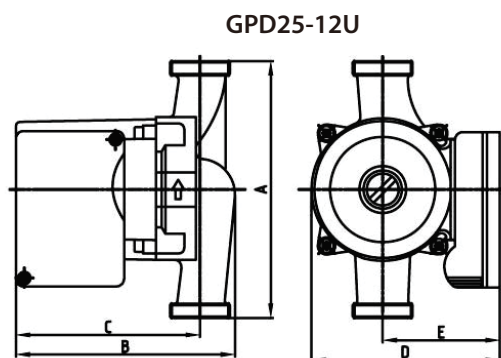
Note:

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

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD25-12U	19	38	115	2.0	230	20uf/200V	a	Closed
			230	1.0	230	5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD25-12U	7 1/16	5 7/8	5 1/16	5 1/4	3 1/4		GF 125 union- 1 1/4" NPSM	10 1/2

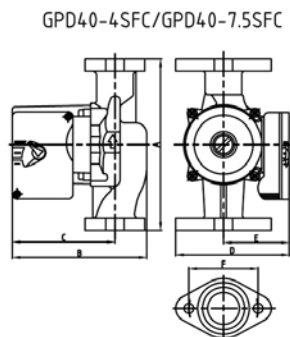
Model Type: GPD40-4SFC, GPD40-7.5SFC



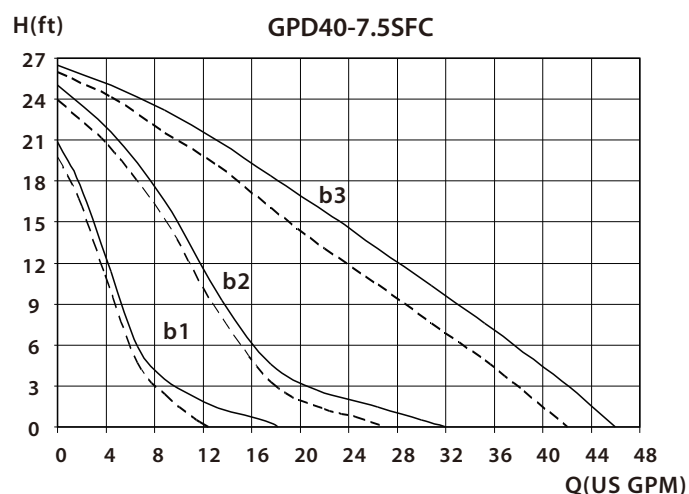
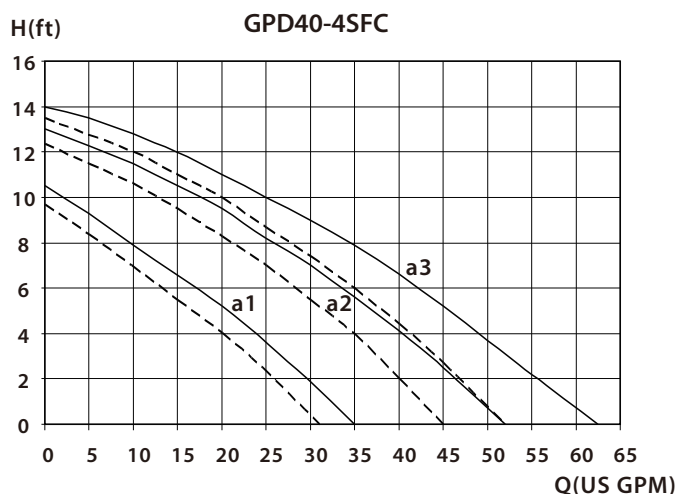
Note:

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

Installation Drawing



Performance Curve



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD40-4SFC	62	14	115	1.7/1.7/1.2	200/190/135	20uf/200V	a3/a2/a1	Closed
			230	0.85/0.85/0.6	200/190/135	5uf/450V		
GPD40-7.5SFC	44	26	115	2.0/1.7/1.2	230/190/135	20uf/200V	b3/b2/b1	Closed
			230	1.0/0.85/0.6	230/190/135	5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD40-4SFC	8 1/2	6 11/16	5 1/8	5 5/8	3 1/4	3 7/16	GF 40 flange (2) 1/2" dia. bolt holes	13 1/2
GPD40-7.5SFC								

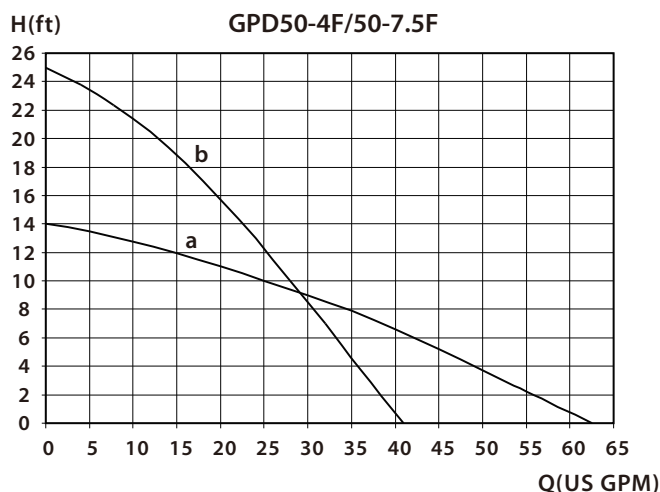
Model Type: GPD50-7.5F, GPD50-4SF



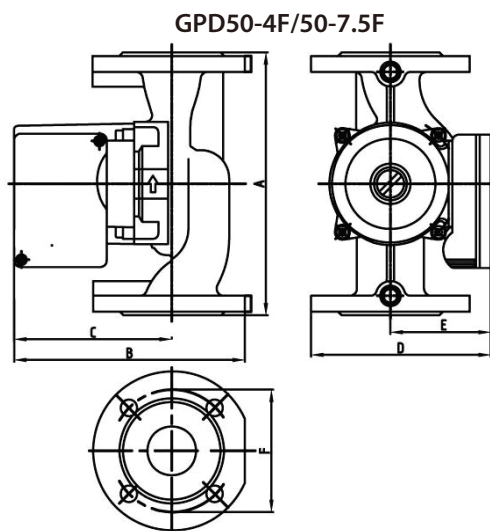
Note:

1. Motor: 2-pole single-phase
2. Liquid Temperature: 36°F ~ 230°F (2°C ~ 110°C)
3. Max. system pressure: 145psi (1MPa)

Performance Curve



Installation Drawing



Performance Parameter Form

Model Type	Max. Flow(gpm)	Max. Head(ft)	Votls(V)	Amps(A)	Watts(W)	Capacitor	Curve	System type
GPD50-4F	62	13	115	1.7	200	20uf/200V	a	Closed
			230	0.85	200	5uf/450V		
GPD50-7.5F	40	25	115	2.0	230	20uf/200V	b	Closed
			230	1.0	230	5uf/450V		

Installation Size Form

Model type	A	B	C	D	E	F	Connection type and size	Shipping weight(lbs)
GPD50-4F	8 1/2	7 1/2	5 1/16	5 7/8	3 1/4	4 3/8	GF 50 flange (4)	15
GPD50-7.5F							1/2" dia. bolt holes	



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All specifications are subject to change without notice. 000

