

CenterFlo AODD Transfer Pumps

Air Operated Double Diaphragm (AODD) Pump Description

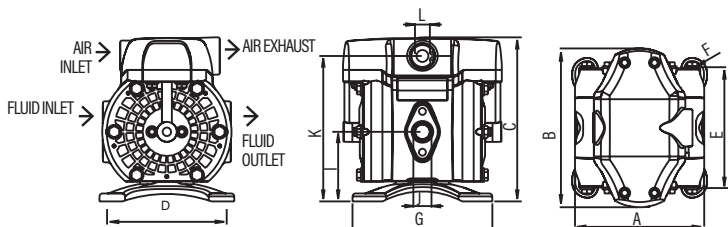
- 1.1. All CenterFlo AODD pumps will be a stall resistant design, manifold free, single molded pump body.
- 1.2. All CenterFlo AODD pumps will utilize a pressure differential in the air chambers to alternately create suction and positive fluid pressure in the fluid chambers, ball checks insure a positive flow of fluid
- 1.3. All CenterFlo AODD pumps will be easily serviceable without disconnecting from distribution line.
- 1.4. All CenterFlo AODD pumps will be individually factory tested and verified for proper function.
- 1.5. All CenterFlo AODD pumps will be lube-free and ice-free.
- 1.6. All CenterFlo AODD pumps will have no rotating shafts or seals.
- 1.8. All CenterFlo AODD pumps will be able to run dry without damage to seals or wetted parts.
- 1.9. All CenterFlo AODD pumps will have on-demand operation.
- 1.10. All CenterFlo AODD pumps will have a fluid path through the center of the pump.
- 1.11. All CenterFlo AODD pumps will use Frictionless Pivoting Air Valve (FPV) technology.
- 1.12. All CenterFlo AODD pumps will have check valves with ball cages which minimize pulsation and provide improved performance under system pressure.
- 1.13. All CenterFlo AODD pumps will have no manifolds - ball checks will be internal and in parallel to the center of pump for improved performance and minimal pulsation
- 1.14. All CenterFlo AODD pumps will have a noise level below 80 db

Product Selection Matrix CenterFlo AODD Pumps

MAX. FREE FLOW	AIR INLET	FLUID IN / OUT	WETTED PARTS		RECOMMENDED FLUID TYPES	RECOMMENDED APPLICATIONS
			CHECK BALLS	DIAPHRAGM		
CF10 POLYPROPYLENE						
10 GAL/MIN (38 L/MIN)	3/8" NPSM(F)	1/2" NPT(F)	PTFE (Teflon)	Hytrel ⁺	Anti-freeze (Glycol) and windshield wash solution	Fluid dispensing and transfer
CF10 POLYPROPYLENE/DEF						
10 GAL/MIN (38 L/MIN)	3/8" NPSM(F)	1/2" BSPP(F)	PTFE (Teflon)	Hytrel ⁺	Diesel exhaust fluid	Fluid dispensing and transfer
CF15 POLYPROPYLENE						
15 GAL/MIN (50 L/MIN)	3/8" NPSM(F)	1/2" NPT(F)	PTFE (Teflon)	Hytrel ⁺	Anti-freeze (Glycol) and windshield wash solution	Fluid dispensing, transfer, and evacuation
CF15 POLYPROPYLENE/DEF						
15 GAL/MIN (50 L/MIN)	3/8" NPSM(F)	1/2" BSPP(F)	PTFE (Teflon)	Hytrel ⁺	Diesel exhaust fluid	Fluid dispensing and transfer
CF15 ALUMINUM						
15 GAL/MIN (50 L/MIN)	3/8" NPSM(F)	1/2" NPT(F)	Buna-N™	Buna-N™	Light viscosity fluids synthetic, mineral oils, and used oil	Fluid dispensing, transfer, and evacuation
CF15 SPECIALTY/MIXING						
<small>NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials</small>						
15 GAL/MIN (50 L/MIN)	3/8" NPSM(F)	IN - 2-3/8" NPT(F) OUT - 1/2" NPT(F)	PTFE (Teflon)	Hytrel ⁺	1:1 solutions of water, Anti-freeze (Glycol), and windshield wash	Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity
CF30 POLYPROPYLENE						
28 GAL/MIN (106 L/MIN)	3/8" NPSM(F)	1" NPT(F)	PTFE (Teflon)	Hytrel ⁺	Anti-freeze (Glycol) and windshield wash solution	Fluid dispensing, transfer, and evacuation
CF30 POLYPROPYLENE/DEF						
28 GAL/MIN (106 L/MIN)	3/8" NPSM(F)	1" BSPP(F)	PTFE (Teflon)	Hytrel ⁺	Diesel exhaust fluid	Fluid dispensing and transfer
CF30 ALUMINUM						
28 GAL/MIN (106 L/MIN)	3/8" NPSM(F)	1" NPT(F)	Buna-N™	Buna-N™	Light viscosity fluids synthetic, mineral, oils, used oil, and diesel	Fluid dispensing, transfer, and evacuation
CF50 POLYPROPYLENE						
50 GAL/MIN (200 L/MIN)	3/8" NPSM(F)	1" NPT(F) FLANGE	Acetal	Hytrel ⁺	Diesel exhaust fluid, Anti-freeze, (Glycol) and windshield wash solution	Fluid dispensing and transfer
CF50 ALUMINUM						
50 GAL/MIN (200 L/MIN)	3/8" NPSM(F)	1" NPT(F)	Buna-N™	Buna-N™	Light viscosity fluids, synthetic, mineral oils, used oil, and diesel	Fluid dispensing and transfer
CF65 ALUMINUM						
65 GAL/MIN (250 L/MIN)	1/2" NPSM(F)	1 1/2" NPT(F)	Acetal	Hytrel ⁺	Light viscosity fluids, synthetic, mineral oils, used oil, windshield wash solution, and diesel	High volume transfer, bulk fill, de-watering, and evacuation
65 GAL/MIN (250 L/MIN)	1/2" NPSM(F)	1 1/2" NPT(F)	Buna-N™	Buna-N™	Light viscosity fluids synthetic, mineral, oils, used oil, and diesel	Fluid dispensing, transfer, and evacuation

CF10 Poly AODD Pump-CenterFlo

Pumps
AODD



DIMENSIONS INCHES										
A	B	C	D	E	F*	G	I	J	K	L
5.12	6.30	6.50	4.13	4.80	0.31	5.54	2.76	1/2"(F)	5.75	3/8"(F)

* Diameter of the holes for fasteners in each of the four pump feet.
Flange connection: 2 bolts - M 5 (1.61" between centers)

Fluids

- Anti-freeze (Glycol)
- Windshield wash solution
- DEF

Markets Served

- Car and truck dealers
- Tire shops
- In-plant transfer
- Quick lubes

Overview

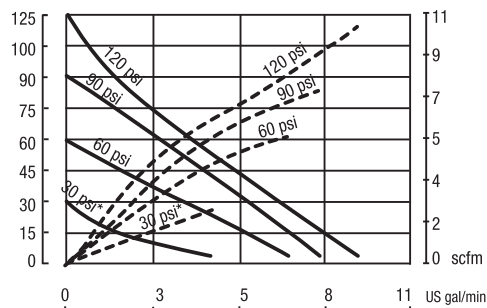
CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring, dispensing, and evacuation, up to 10 gal/min. They can be used as stand-alone pumps for transfer applications.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-029A	CF10 Polypropylene
<input type="checkbox"/> 1120-034	CF10 Polypropylene / DEF

TECHNICAL DATA	
Air inlet	3/8" NPSM(F)
Fluid inlet port	1/2" NPT(F) 1120-029A 1/2" BSPP(F) for DEF 1120-034
Fluid outlet port	1/2" NPT(F) 1120-029A 1/2" BSPP(F) for DEF 1120-034
Max. free flow	10 gal/min (38 l/min)
Air pressure range	22 to 102 psi (1.5 to 7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	PTFE (Teflon), Viton®, polypropylene, stainless steel, acetal, and Hytrel®
Recommended Fluids	Anti-freeze (Glycol) and windshield wash solution
Recommended Applications	Fluid dispensing, transfer, DEF, and evacuation
Service Bulletin	SB 1121

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.



FLUID PRESSURE psi
 — Outlet pressure
 - - - Air consumption

(*) 2 bar test with a PTFE (Teflon) diaphragms pump.

CF10 Poly AODD Pump-CenterFlo Description

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring, dispensing, and evacuation, up to 10 gal/min. They can be used as stand-alone pumps for transfer applications.

CF10 Poly AODD Pump-CenterFlo Models Available

- 1120-029** CF10 Polypropylene
- 1120-034** CF10 Polypropylene / DEF

CF10 Poly AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/8" NPSM(F)
- 3.3. AODD Pump will have a fluid inlet port of 1/2" NPT(F) 1120-029A & 1/2" BSPP(F) DEF 1120-034
- 3.4. AODD Pump will have a fluid outlet port of 1/2" NPT(F) 1120-029A & 1/2" BSPP(F) DEF 1120-034
- 3.5. AODD Pump will have a free flow of 10 gal/min (38 l/min) 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 22 to 102 psi (1.5 to 7 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/8" (3 mm)

Materials

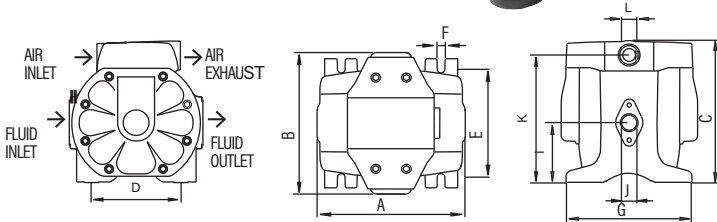
- 4.1. The wetted materials will consist of PTFE (Teflon[®]), Viton[®], Polypropylene, Stainless Steel, Acetal, and Hytrel[®]

Warranty

- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

CF15 AODD Pump-CenterFlo

Pumps
AODD



DIMENSIONS INCHES FOR ALUMINUM PUMP										
A	B	C	D	E	F*	G	I	J	K	L
6.14	6.30	6.57	4.13	4.80	0.31	5.75	2.76	1/2" (F)	5.91	3/8" (F)
DIMENSIONS INCHES FOR POLYPROPYLENE PUMP										
6.14	6.30	7.28	4.13	4.80	0.31	5.54	3.27	1/2" (F)	6.54	3/8" (F)

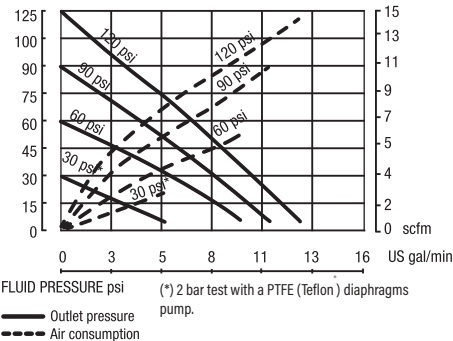
* Diameter of the holes for fasteners in each of the four pump feet.
Flange connection: 2 bolts - M 5 (1.61" between centers)

Fluids

- Anti-freeze (Glycol)
- Light viscosity fluids
- Windshield wash solution
- Synthetic and mineral oils
- DEF
- Used oil & anti-freeze

Markets Served

- Car and truck dealers
- Tire shops
- In-plant transfer
- Quick lubes



Overview

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring, dispensing, and evacuation up to 15 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps in distribution systems that include hose reels.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-023A	CF15 Polypropylene
<input type="checkbox"/> 1120-027	CF15 Aluminum
<input type="checkbox"/> 1120-025A	CF15 Polypropylene / DEF

TECHNICAL DATA	
Air inlet	3/8" NPSM(F)
Fluid inlet port	1/2" NPT(F) 1120-023A, 1120-027 1/2" BSPP(F) for DEF 1120-025A
Fluid outlet port	1/2" NPT(F) 1120-023A, 1120-027 1/2" BSPP(F) for DEF 1120-025A
Max. Free Flow	15 gal/min (50 l/min)
Air pressure range	22 to 102 psi (1.5 to 7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	
1120-023A - 1120-025A	PTFE (Teflon), Viton®, polypropylene, stainless steel, and Hytrel®
1120-027	Aluminum, PTFE, Viton®, polypropylene, Buna-N™, and stainless steel
Recommended fluids	
1120-023A	Anti-freeze (Glycol) and windshield wash solution
1120-025A	Diesel exhaust fluid
1120-027	Light viscosity fluids, synthetic, mineral oils, anti-freeze, and used oil
Recommended Applications	Fluid dispensing, transfer, and evacuation
Service Bulletin	SB 1122

CF15 AODD Pump-CenterFlo Description

CenterFlo pumps can handle a wide range of fluids used for vehicle service. Typical applications are transferring, dispensing, and evacuation up to 15 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps in distribution systems that include hose reels.

CF15 AODD Pump-CenterFlo Models Available

- 1120-023A** CF15 Polypropylene
- 1120-027** CF15 Aluminum
- 1120-025A** CF15 Polypropylene / DEF

CF15 AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/8" NPSM(F)
- 3.3. AODD Pump will have a fluid inlet port of 1/2" NPT(F) 1120-023A, 1120-027 & 1/2" BSPP(F) DEF 1120-025A
- 3.4. AODD Pump will have a fluid outlet port of 1/2" NPT(F) 1120-023A, 1120-027 & 1/2" BSPP(F) DEF 1120-025A
- 3.5. AODD Pump will have a free flow of 15 gal/min (50 l/min) based on 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 22 to 102 psi (1.5 to 7 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/8" (3 mm)

Materials

The wetted materials will consist of

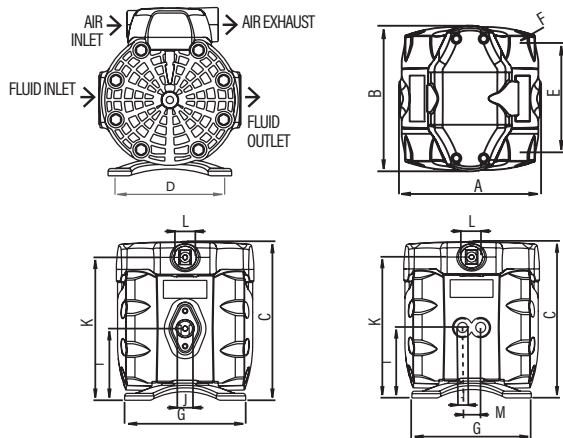
- 4.1. 1120-023A - 1120-025A PTFE (Teflon), Viton, Polypropylene, Stainless Steel, and Hytrel
- 4.2. 1120-027 Aluminum, PTFE, Viton, Polypropylene, Buna-N™, and Stainless Steel

Warranty

- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

CF15 Mixing AODD Pump-CenterFlo

Pumps
AODD



DIMENSIONS INCHES											
A	B	C	D	E	F*	G	I	J	K	L	M
6.14	6.30	7.28	4.13	4.80	0.31	5.54	3.27	0.5" (F)	6.54	3/8" (F)	0.94

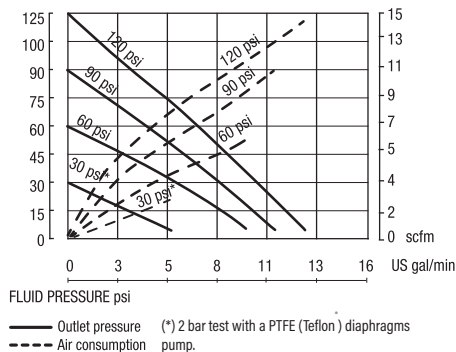
* Diameter of the holes for fasteners in each of the four pump feet.
Flange connection: 2 bolts - M 5 (1.61" between centers)

Fluids

- Anti-freeze (glycol)
- Windshield wash solution

Markets Served

- Car and truck dealers
- Quick lubes



Overview

CenterFlo pumps with a dual inlet for 1:1 ratio mixing of fluids with similar viscosities, like windshield wash or anti-freeze with water. All dual inlet pumps have 2 x 2 - 3/8" NPT(F) inlet ports.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-028A	CF15 Polypropylene Mixing
<input type="checkbox"/> 3120-201	Pressure Relief for Diaphragm 1/2" NPT

TECHNICAL DATA	
Air inlet	3/8" NPSM(F)
Fluid inlet port	2 - 3/8" NPT(F)
Fluid outlet port	1/2" NPT(F) & flange
Max. free flow	15 gal/min (50 l/min)
Air pressure range	22 to 102 psi (1.5 to 7 bar)
Solids in suspension	1/8" (3 mm)
Wetted Materials	PTFE (Teflon [®]), Viton [®] , polypropylene, stainless steel, acetal and Hytrel [®]
Recommended Fluids	Anti-freeze (Glycol) and windshield wash solution
Recommended Applications	Dual inlet pumps for 1:1 proportion mixing of fluids with similar viscosity. NOTE: both fluids and their resulting solution must be compatible with the pump wetted materials
Service Bulletin	SB 1123

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

CF15 Poly/Mix AODD Pump-CenterFlo Description

CenterFlo pumps with a dual inlet for 1:1 ratio mixing of fluids with similar viscosities, like windshield wash or anti-freeze with water. All dual inlet pumps have 2 x 2 - 3/8" NPT(F) inlet ports.

CF15 Poly/Mix AODD Pump-CenterFlo Models Available

- ☐ **1120-028A** CF15 Polypropylene Mixing

CF15 Poly/Mix AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/8" NPSM(F)
- 3.3. AODD Pump will have two fluid inlet ports of 2 - 3/8" NPT(F)
- 3.4. AODD Pump will have a fluid outlet port of 1/2" NPT(F) & flange
- 3.5. AODD Pump will have a free flow of 15 gal/min (50 l/min) based on 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 22 to 102 psi (1.5 to 7 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/8" (3 mm)

Materials

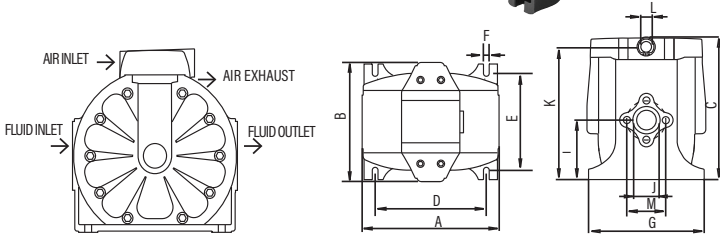
- 4.1. The wetted materials will consist of PTFE (Teflon), Viton, Polypropylene, Stainless Steel, Acetal, and Hytrel

Warranty

- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

CF30 AODD Pump-CenterFlo

Pumps
AODD



DIMENSIONS INCHES FOR ALUMINUM PUMP											
A	B	C	D	E	F*	G	I	J	K	L	M
8.50	7.44	8.94	6.89	6.06	0.35	7.24	3.72	1" (F)	8.27	0.37" (F)	2.44**
DIMENSIONS INCHES FOR POLYPROPYLENE PUMP											
8.50	8.58	9.06	6.89	6.06	0.31	7.24	3.72	1" (F)	8.33	0.37" (F)	2.44**

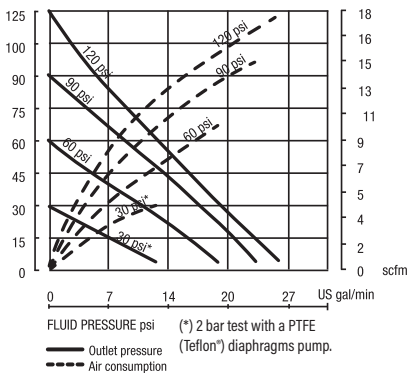
*Diameter of the holes for fasteners in each of the four pump feet.
**Flange connection: 4 bolts - M 10 (2.44" between centers).

Fluids

- Anti-freeze (Glycol)
- Light viscosity fluids
- Windshield wash solution
- Synthetic and mineral oils
- DEF
- Used Fluids

Markets Served

- Car and truck dealers
- In-plant transfer
- Lube trucks
- Quick lubes



Overview

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring, dispensing, and evacuation up to 28 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-026A	CF30 Polypropylene
<input type="checkbox"/> 1120-024	CF30 Aluminum
<input type="checkbox"/> 1120-031A	CF30 Polypropylene/DEF

TECHNICAL DATA	
Air inlet	3/8" NPSM(F)
Fluid inlet port	1" NPT(F) 1120-026A, 1120-040 1" BSPP(F) for DEF 1120-031A
Fluid outlet port	1" NPT(F) 1120-026A, 1120-040 1" BSPP(F) for DEF 1120-031A
Max. free flow	28 gal/min (106 l/min)
Air pressure range	22 to 102 psi (1.5 to 7 bar)
Solids in suspension	3/16" (4 mm)
Wetted Materials	
1120-026A and 1120-031A	PTFE (Teflon®), V'iton®, polypropylene, stainless steel, and Hytrel®
1120-040	Aluminum, Acetal Teflon®, Buna-N™, Hytrel® and stainless steel
Recommended fluids	
1120-026A	Windshield wash solution
1120-040	Light viscosity fluids, synthetic, mineral oils, anti-freeze, and used oil
1120-031A	Diesel exhaust fluid
Recommended applications	Fluid dispensing, transfer, DEF, and evacuation
Service Bulletin	SB 1145

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

CF30 AODD Pump-CenterFlo Description

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are transferring, dispensing, and evacuation up to 28 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

CF30 AODD Pump-CenterFlo Models Available

- 1120-026A** CF30 Polypropylene
- 1120-024** CF30 Aluminum
- 1120-031A** CF30 Polypropylene / DEF

CF30 AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/8" NPSM(F)
- 3.3. AODD Pump will have a fluid inlet port of 1" NPT(F) for pumps 1120-026A and 1120-024
- 3.4. AODD Pump will have a fluid inlet port of 1" BSPP(F) for DEF pump 1120-031A
- 3.5. AODD Pump will have a fluid outlet port of 1" NPT(F) for pumps 1120-026A, 1120-024
- 3.6. AODD Pump will have a fluid outlet port of 1" BSPP(F) for DEF pump 1120-031A
- 3.7. AODD Pump will have a free flow of 28 gal/min (106 l/min) based on 100 psi (7 bar) air pressure
- 3.8. AODD Pump will have an operating air pressure of 22 to 102 psi (1.5 to 7 bar)
- 3.9. AODD Pump will have a maximum size of suspended solids of 3/16" (4 mm)

Materials

The wetted materials will consist of

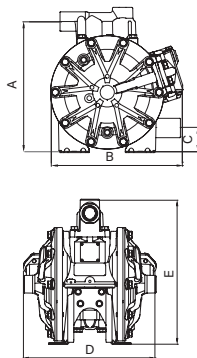
- 4.1. 1120-026A and 1120-031A PTFE (Teflon) Viton, Polypropylene, Stainless Steel, and Hytrel
- 4.2. 1120-024 Aluminum, Acetal Teflon, Buna-N™, Stainless Steel, and Hytrel

Warranty

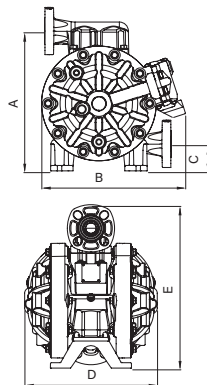
- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

CF50 AODD Pump-CenterFlo

Pumps
AODD



DIMENSIONS INCHES (MM)				
A	B	C	D	E
11" (278)	11" (280)	2" (52)	11" (281)	12.13" (308)



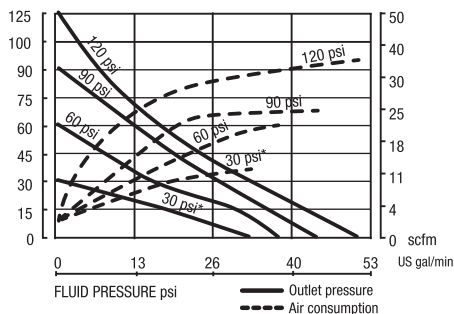
DIMENSIONS INCHES (MM)				
A	B	C	D	E
12.25" (311)	12.59" (320)	2.33" (60)	11.66" (295)	14.33" (364)

Fluids

- Used oil
- Used anti-freeze
- Synthetic and mineral based motor oils
- Windshield wash solution

Markets served

- Car and truck dealers
- Mining and construction
- Fleets
- Railroad and mass transit
- In-plant transfer
- Lube trucks



Overview

CF50 is a high performance 1" AODD pump with many unique features. Similar to all our CF series pumps, the new CF50 utilizes a flow through fluid design that is more air efficient than traditional AODD pumps. Capable of distributing up to 50 gal/min. This equates to higher performance, versatility along with easy serviceability.

- High performance; increased flow rate with minimal air consumption
- Dependability: non-icing air motor
- Versatile; inlet and outlet ports can be oriented to fit the installation/application
- Ease of service; diaphragms and air motor can be serviced with the pump installed without removal.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-037	CF50 Aluminum
<input type="checkbox"/> 1120-038	CF50 Polypropylene Includes: 4411-037 - Kit, Flange, CF50 Poly (2 pcs)

TECHNICAL DATA	
Air inlet	3/8" NPSM(F)
Fluid inlet port	1" NPT(F) 1120-037 / 1" ANSI flange B16.5 150 lb 1120-038
Fluid outlet port	1" NPT(F) 1120-037 / 1" ANSI flange B16.5 150 lbs 1120-038
Max. free flow	53 gal/min (200 l/min)
Air pressure range	22-102 psi (1.5-7 bar)
Solids in suspension	1/8" (3.2 mm)
Wetted Materials	
1120-037	Aluminum, Hytrel, acetal, Buna-N™, stainless steel
1120-038	PTFE (Teflon™), polypropylene, stainless steel, Hytrel™, FKN
Recommended Fluids	
1120-037	Light viscosity fluids, synthetic, mineral oils, anti-freeze, and used oil
1120-038	Windshield wash solution
Recommended Applications	Fluid dispensing, transfer, and evacuation
Service Bulletin	SB 1147

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

CF50 AODD Pump-CenterFlo Description

CF50 is a high performance 1" AODD pump with many unique features. Similar to all our CF series pumps, the new CF50 utilizes a flow through fluid design that is more air efficient than traditional AODD pumps. Capable of distributing up to 50 gal/min. This equates to higher performance, versatility along with easy serviceability.

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- Dependability; non-icing air motor
- Versatile; inlet and outlet ports can be oriented to fit the installation/application
- Ease of service; diaphragms and air motor can be serviced with the pump installed without removal.

CF50 AODD Pump-CenterFlo Models Available

- ☐ **1120-037** CF50 Aluminum
- ☐ **1120-038** CF50 Polypropylene

CF50 AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/8" NPSM(F)
- 3.3. AODD Pump will have a fluid inlet port of 1" NPT(F) for 1120-037
- 3.4. AODD Pump will have a fluid outlet port of 1" NPT(F) for 1120-037
- 3.5. AODD Pump will have a fluid outlet port of ANSI flange B16.5 150 lb for pumps 1120-038
- 3.6. AODD Pump will have a free flow of 53 gal/min (200 l/min) based on 100 psi (7 bar) air pressure
- 3.7. AODD Pump will have an operating air pressure of 22-102 psi (1.5-7 bar)
- 3.8. AODD Pump will have a maximum size of suspended solids of 1/8" (3.2 mm)
- 3.9 AODD Pump 1120-038 will have 1" NPT(F) flange kit included

Materials

The wetted materials will consist of

- 4.1. PTFE (Teflon), Polypropylene, Stainless Steel, Hytrel, FKM for 1120-037
- 4.2. Aluminum, Hytrel, Acetal, Buna-N™, Stainless Steel for 1120-038

Warranty

- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

CF65 AODD Pump-CenterFlo

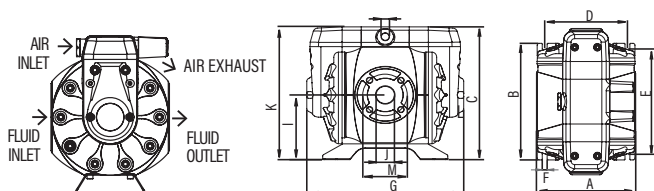


Overview

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are high volume transferring, bulk fill, and evacuation up to 65 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-033	CF65 Diaphragm Pump
<input type="checkbox"/> 1120-039	CF65 Diaphragm Pump Buna-N™



DIMENSIONS INCHES											
A	B	C	D	E	F*	G	I	J	K	L	M
10.39"	12.20"	13.90"	8.66"	11.02"	0.51"	15.35"	6.77"	1.5" (F)	12.87"	0.5" (F)	4.33**

* Diameter of the holes for fasteners in each of the four pump feet.

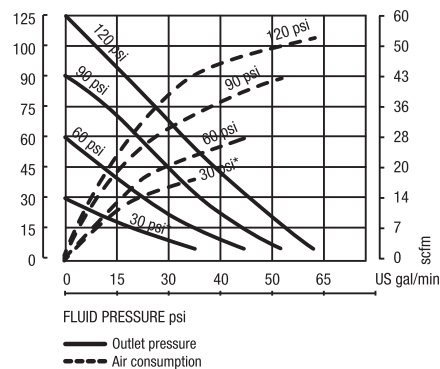
** ANSI B16.5 150 lb flange connection: 4 bolts - UNC 1/2" - 13 (3.87" between centers)

Fluids

- Anti-freeze (Glycol)
- Light viscosity fluids
- Windshield wash solution
- Synthetic and mineral oil
- Used oil and anti-freeze

Markets Served

- Car and truck dealers
- Fleets
- Mining and construction
- Railroad and mass transit vehicles
- In-plant
- Lube trucks



(*) 2 bar test with a Hytrel diaphragms pump.

TECHNICAL DATA	
Air inlet	1/2" NPSM(F)
Fluid inlet port	1 1/2" NPT(F) + ANSI flange B16.5 150 lb
Fluid outlet port	1 1/2" NPT(F) + ANSI flange B16.5 150 lb
Max. free flow	65 gal/min (250 l/mn)
Air pressure range	22-102 psi (1.5-7 bar)
Solids in suspension	1/4" (6 mm)
Wetted Materials	Aluminum, acetal, Buna-N™, stainless steel
Recommended fluids	Anti-freeze (Glycol)
Recommended applications	Fluid dispensing, transfer, and evacuation
Service Bulletin	SB 1132

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

CF65 AODD Pump-CenterFlo Description

CenterFlo pumps can handle a wide range of fluids used for vehicle service.

Typical applications are high volume transferring, bulk fill, and evacuation up to 65 gal/min. They can be used as stand-alone pumps for transfer applications or as systems pumps that include hose reels.

CF65 AODD Pump-CenterFlo Models Available

- 1120-033** CF50 Aluminum
- 1120-039** CF50 Polypropylene

CF65 AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 1/2" NPSM(F)
- 3.3. AODD Pump will have a fluid inlet port of 1 1/2" NPT(F) + ANSI flange B16.5 150 lb
- 3.4. AODD Pump will have a fluid outlet port of 1 1/2" NPT(F) + ANSI flange B16.5 150 lb
- 3.5. AODD Pump will have a free flow of 65 gal/min (250 l/mn) based on 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 22-102 psi (1.5-7 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/4" (6 mm)

Materials

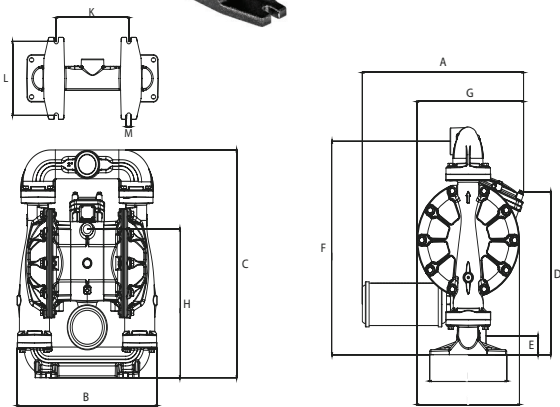
- 4.1. The wetted materials will consist of Aluminum, Acetal, Buna-N™, Stainless Steel

Warranty

- 5.1. The CenterFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

TF170 AODD Pump-TraditionalFlo

Pumps
AODD



DIMENSIONS INCHES											
A	B	C	D	E	F	G	I	J	K	L	M
21.11"	18.31"	26.45"	18.89"	2 1/8"	24.79"	13.97"	13.25"	10.05"	10.08"	9.06"	0.59"

Overview

TraditionalFlo pump is designed to handle a wide range of fluids in very large volume transfer and fluid evacuation applications.

Balcrank's TraditionalFlo pump transfers fluid up to 170 gal/min. Combining conventional flow design with pivoting air valve for increased delivery and reliable performance.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-041	TF170 Aluminum

TECHNICAL DATA	
Air inlet	3/4" NPT(F)
Fluid inlet port	2" NPT(F)
Fluid outlet port	2" NPT(F)
Max. free flow	170 gal/min (605 l/min)
Air pressure range	22-115 psi (1.5-8 bar)
Solids in suspension	1/4" (6 mm)
Wetted Materials	Aluminum, Hytrel®, Viton®
Recommended Fluids	Anti-freeze (Glycol), windshield wash solution, lubricants, waste oil, waste fluid, used fluid and anti-freeze
Recommended Applications	Very large volume transfer, de-wattering and fluid evacuation
Service Bulletin	SB 1206

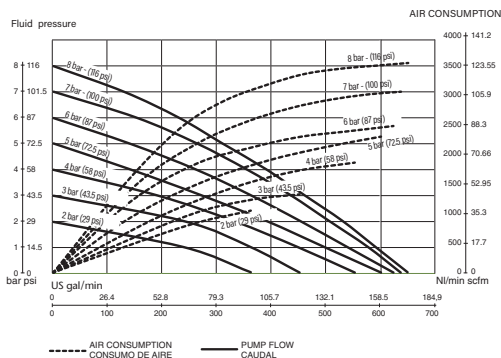
Fluids

- Anti-freeze (Glycol)
- Windshield wash solution
- Synthetic and mineral oil
- Used oil

Markets Served

- Mining and construction
- Railroad and mass transit vehicles
- In-plant transfer
- Agriculture/Farm implement
- Lube trucks

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.



TF170 AODD Pump-TraditionalFlo Description

TraditionalFlo pump is designed to handle a wide range of fluids in very large volume transfer and fluid evacuation applications. Balcrank's TraditionalFlo pump transfers fluid up to 170 gal/min. Combining conventional flow design with pivoting air valve for increased delivery and reliable performance.

CF65 AODD Pump-CenterFlo Models Available

- ☐ **1120-041** TF170 Aluminum

CF65 AODD Pump-CenterFlo Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 3/4" NPT(F)
- 3.3. AODD Pump will have a fluid inlet port of 2" NPT(F)
- 3.4. AODD Pump will have a fluid outlet port of 2" NPT(F)
- 3.5. AODD Pump will have a free flow of 170 gal/min (605 l/mn) based on 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 22-115 psi (1.5-8 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/4" (6 mm)

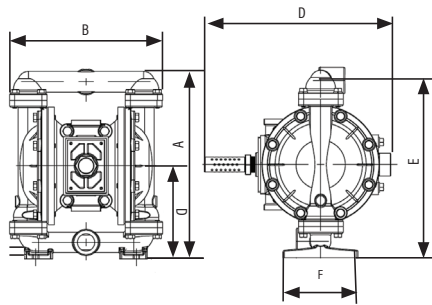
Materials

- 4.1. The wetted materials will consist of Aluminum, Hytrel®, Viton®

Warranty

- 5.1. The TraditionalFlo AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.

AODD Pump-Conventional 1" UL



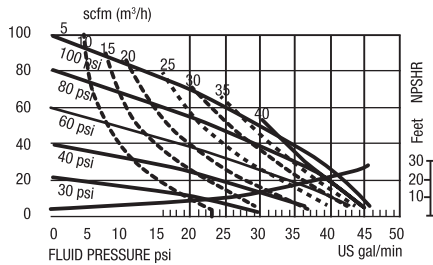
DIMENSIONS INCHES					
A	B	C	D	E	F
12.72"	10.25"	6.22"	12.5"	11.84"	5"

Fluids

- Light viscosity fluids
- Synthetic and mineral oils
- Diesel Fuel
- Used Fluids

Markets served

- Car and truck dealers
- Fleets
- Construction
- Mass transit vehicles
- In-plant
- Lube trucks



Overview

These conventional pumps may be used as stand-alone pumps for transfer applications or as system pumps that include hose reels.

Model 1120-015S is UL79 listed for pumping: Diesel Fuel, No. 4 Fuel Oils (or lighter), Motor Oil, Kerosene, and Water.

MODELS AVAILABLE	DESCRIPTION
<input type="checkbox"/> 1120-015S	1" UL Aluminum AODD Pump

TECHNICAL DATA	
Air inlet	1/2" NPT(F)
Fluid inlet port	1" NPT(F)
Fluid outlet port	1" NPT(F)
Max. free flow	45 gal/min (170 l/min)
Air pressure range	45 -100 psi (3-6.8 bar)
Solids in suspension	1/4" (6 mm)
Wetted Materials	Nitrile, neoprene, PTFE, polypropylene and polyethylene
Recommended fluids	Light viscosity fluids synthetic, mineral oils, and Diesel Fuel
Recommended applications	Fluid dispensing, transfer, and evacuation.
Service Bulletin	SB 1113

** Balcrank does not recommend pumping windshield wash or any other fluid below 100° flash point. Contact Balcrank for additional information.

AODD Pump-Conventional 1" UL Description

These conventional pumps may be used as stand-alone pumps for transfer applications or as system pumps that include hose reels.

Model 1120-015S is UL79 listed for pumping: Diesel Fuel, No. 4 Fuel Oils (or lighter), Motor Oil, Kerosene, and Water.

AODD Pump-Conventional 1" UL Models Available

- ❑ **1120-15S** 1" UL Aluminum AODD Pump

AODD Pump-Conventional 1" UL Specifications

- 3.1. AODD Pump will have a 1:1 ratio
- 3.2. AODD Pump will have an air inlet port of 1/2" NPT(F)
- 3.3. AODD Pump will have a fluid inlet port of 1" NPT(F)
- 3.4. AODD Pump will have a fluid outlet port of 1" NPT(F)
- 3.5. AODD Pump will have a free flow of 45 gal/min (170 l/min) based on 100 psi (7 bar) air pressure
- 3.6. AODD Pump will have an operating air pressure of 45 -100 psi (3-6.8 bar)
- 3.7. AODD Pump will have a maximum size of suspended solids of 1/4" (6 mm)

Materials

- 4.1. The wetted materials will consist of Nitrile, Neoprene, PTFE, Polypropylene and Polyethylene

Warranty

- 5.1. The Conventional AODD pump will have a 1-year standard warranty on defects in materials and workmanship only.