Small Close-Coupled DC Centrifugal Pumps
316 Stainless Steel and Bronze Models

Description
Shertech close-coupled, 316 stainless steel and bronze semi-open impeller centrifugal models pump continuously, producing high flow rates under low-head conditions. Designed for continuous low pressure circulation and transfer of nonflammable liquids, utility, boiler feed, general transfer, filtration, cooling towers, condensate return, marine applications, fountains, boosters, water circulation, irrigation, spraying systems, jockey pump service, chemical processing, aggressive liquid applications and other general-purpose pumping compatible with pump component materials where no suction lift or no self-priming is required.

- Capacities to 24 GPM, heads to 25 ft.
- DC motor voltages are available in 12, 24 and 36 volts.
- Clog-resistant, semi-open metallic impellers (Bronze models have a bronze/brass impeller; Stainless Steel models have a 316 stainless impeller).
- Pumps feature maintenance-free ball bearings and an easily accessible front drain plug for draining liquid.
- Maximum casing working pressure is 100 PSI.
- Standard pump models will handle specific gravities to 1.1. Higher specific gravity fluids are not recommended.
- Pumps are capable of fluid viscosities to 50 SSU at standard motor speeds. Higher viscosity fluids are not recommended.
- 3/4" female NPT inlet and outlet ports.
- Discharge port can be rotated at 90-degree intervals.
- Stainless steel and bronze models handle temperatures from 40° to 180° F.
- Seals: Bronze models are equipped with a Viton lip seal and Viton o-ring, and Stainless Steel models are equipped with a carbon ceramic viton mechanical seal having 316 stainless steel components and Viton o-rings.

316 STAINLESS STEEL CENTRIFUGAL PUMP WITH DC MOTOR – Wet-end components are constructed of 316 and 300 series stainless steel, Viton, carbon and ceramic.

BRONZE CENTRIFUGAL PUMP WITH DC MOTOR – Wet-end components are constructed of bronze, brass, Viton and 300 series stainless steel.

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres. When pumping hazardous or dangerous materials, use only in room or area designated for that purpose. For your protection, always wear proper clothing, eye protection, etc. in case of any malfunction. For proper handling techniques and cautions, contact your chemical supplier, insurance company and local agencies (fire dept., etc.). Failure to comply with this warning could result in personal injury and/or property damage.

⚠ CAUTION ***Pumps are not self-priming and cannot suction lift, flooded inlet is required. If inlet is not flooded when the pump is running, seal failure will result and is not covered under the manufacturer's warranty.***

Performance

Model	Inlet Port (NPT)*	Outlet Port (NPT)*	GPM Pumping Water at 70° F @ Total Feet of Head				
			Free Flow	5	10	15	Shutoff (Ft)
Stainless Steel Motor-Mounted Models							
COMSV012D	3/4"	3/4"	21	18	16	11	22
COMSV024D	3/4"	3/4"	21	18	16	11	22
COMSV036D	3/4"	3/4"	21	18	16	11	22
Bronze Motor-Mounted Models							
COMBL012D	3/4"	3/4"	21	18	16	11	22
COMBL024D	3/4"	3/4"	21	18	16	11	22
COMBL036D	3/4"	3/4"	21	18	16	11	22

Test data taken with water at 70° F (to convert data to PSI, divide feet of head by 2.31).
Pump performance when pump is new. As pump wears, the performance will decrease.
(*) Female NPT inlet and outlet (in inches).

NOTES: Consult tables on HP adders and speed recommendations for high viscosity fluids. The pump relationship between volume (GPM), pressure (PSI), speed (RPM) and horsepower is shown on Performance Chart in Shertech Motor Manual form L-4082. When pumping a more viscous liquid, a slower speed, a larger pipe size pump, and possibly a larger motor should be selected.
Max. Viscosity = 50 SSU with the motor supplied (at 1.1 specific gravity).
Max. Specific Gravity = 1.1.
Manufacturer reserves the right to change performance without notification.

Source: Owner's Manual L-4096 (11/07)

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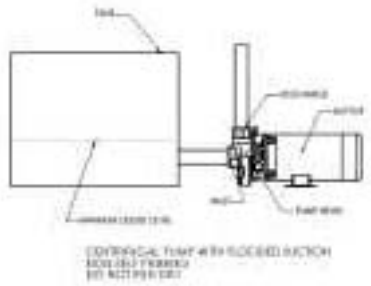
Model Ordering Codes and Options

Model Number: COMSV012D



Example Model: COMSV012D

(1) CO (2) M (3) S (4) V (5) 0 (6) 12D

1st	2nd	3rd	4th	5th	6th
Series	**Mounting**	**Material**	**Seal (Mech)**	**Impeller Size (Ports)**	**Motor Options**
CO: Centrifugal Semi-Open Impeller	M: Motor Mount	S: 316 Stainless Steel B: Bronze	V: Viton Mechanical Seal (for SS models only) L: Viton Lip Seal (for bronze models only)	0 (3/4"- 3/4")	12D: 12 Volt DC 24D: 24 Volt DC 36D: 36 Volt DC

Manufacturer reserves the right to change model order codes, standard models, specifications, and performance without notification.

Price List and Specifications

List Price	Model	HP*	Type	DC Motor Voltage	Shaft Rotation**	Full Load Amps	Max. Amps	Overload Protection***	Pump Shaft Size	Motor Shaft Type	Ports (NPT)	PUMP CONSTRUCTION (Wet End) Body/Adapter & Cover Castings	Impeller	Shaft	Seals & O-Rings	Ship Wt. (lbs.)
	Stainless Steel Motor-Mounted Models															
$	COMSV012D	1/8	TENV	12	CW	8.5	10.5	Fuse	8mm	Flat	3/4"	316 SS	316 SS	300 SS	Viton†	4.1
$	COMSV024D	1/8	TENV	24	CW	5.4	7.8	Fuse	8mm	Flat	3/4"	316 SS	316 SS	300 SS	Viton†	4.1
$	COMSV036D	1/8	TENV	36	CW	3.2	5.0	Fuse	8mm	Flat	3/4"	316 SS	316 SS	300 SS	Viton†	4.1
	Bronze Motor-Mounted Models															
$	COMBL012D	1/8	TENV	12	CW	8.5	10.5	Fuse	8mm	Flat	3/4"	BR/BZ	BR/BZ	300 SS	Viton‡	4.3
$	COMBL024D	1/8	TENV	24	CW	5.4	7.8	Fuse	8mm	Flat	3/4"	BR/BZ	BR/BZ	300 SS	Viton‡	4.3
$	COMBL036D	1/8	TENV	36	CW	3.2	5.0	Fuse	8mm	Flat	3/4"	BR/BZ	BR/BZ	300 SS	Viton‡	4.3

TENV = Totally-Enclosed Non-Ventilated SS = Stainless Steel BZ = Bronze BR = Brass
(*) Approximate HP
(**) Standing behind the motor
(***) Replaceable fuse
(†) Mechanical seal: Standard shaft seal also contains 316 series stainless steel, carbon and ceramic.
(‡) Lip seal: Standard shaft seal also contains 300 series stainless steel.
NOTES: Driver data is subject to change without notice; see label on driver for actual specifications.
All dimensions are in inches unless otherwise specified.
Manufacturer reserves the right to change specifications without notification.

Source: Owner's Manual L-4096 (11/07)