

Pedestal-Mount Centrifugal Pumps

316 Stainless Steel, Bronze and Cast Iron Models

Description

Shertech pedestal cast iron, bronze or 316 stainless steel units 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 170 GPM, heads to 74 ft.
- 1/3 to 3 HP AC requirements (motors not included).
- Clog-resistant, semi-open metallic impellers.
- Pumps feature maintenance-free ball bearings and an easily accessible front drain plug for draining liquid.
- Maximum casing working pressure is 200 PSI.
- 3/4" to 2" female NPT inlet and outlet ports.
- Discharge port can be rotated at 90-degree intervals.
- Standard pump models (at 3450 RPM) will handle specific gravities to 1.1 (at 100 SSU or less). For specific gravities to 1.4 (at 100 SSU or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque maximum. Higher specific gravity fluids are not recommended.
- Standard pump models (at 3450 RPM) will handle viscosity to 100 SSU (at 1.1 specific gravity or less) and up to 200 SSU (specific gravity of 1.0 or less). For viscosity up to 400 SSU (specific gravity of 1.0 or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque. For fluids with a viscosity greater than 400 SSU, pump speed must be reduced below 3450 RPM.
- Cast Iron and Bronze units handle temperatures to 200° F; Stainless Steel units handle temperatures to 250° F.
- Seals: Pumps are equipped with a carbon ceramic mechanical seal having 316 stainless steel components. These seals protect the pump shaft, which is 316 series stainless steel, from chemical exposure. Buna-N seal and o-ring in cast iron and bronze models, with Viton seal and o-ring in 316 stainless steel models. Aftermarket options listed below.

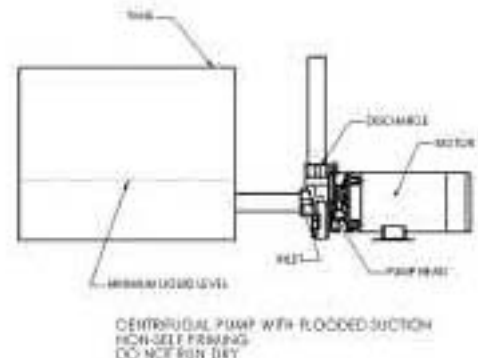
SHERTECH CLOSE-COUPLED PUMPS – Motor-driven models with NEMA 56J motor frame and base are available.

REPAIR SEALS AND OPTIONS – Standard (Viton & Buna-N) and an upgraded (Silicon Carbide) seal are available. If abrasive or small, particulated fluids are being pumped, an upgrade to the silicon carbide mechanical seal with Viton elastomers is recommended. Standard and upgraded seals can be located in the repair parts list pages in this manual.



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.



Source: Owner's Manual L-4075 (11/07)

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Performance – Standard Models (Water at 70°)

316 SS Models	Bronze Models	Cast Iron Models	HP**	3450 RPM Pump Driven Speed										Max. Head
				10	15	GPM of water at Total Head in Feet*		20	30	40	50	60	70	
COPSV1	COPBB1	COPCB1	1/3	41	37	34	25	10	-	-	-	-	-	44
COPSV3	COPBB3	COPCB3	3/4	72	68	63	53	41	22	-	-	-	-	55
COPSV5	COPBB5	COPCB5	1½	115	110	104	94	81	64	40	-	-	-	67
COPSV7	COPBB7	COPCB7	3	168	164	155	148	137	124	110	80	40	-	83

316 SS Models	Bronze Models	Cast Iron Models	HP**	2850 RPM Pump Driven Speed										Max. Head
				7	10	GPM of water at Total Head in Feet*		14	20	27	34	41	48	
COPSV1	COPBB1	COPCB1	1/4	34	31	28	21	8	-	-	-	-	-	30
COPSV3	COPBB3	COPCB3	1/2	59	56	52	44	34	18	-	-	-	-	38
COPSV5	COPBB5	COPCB5	1	95	91	86	78	67	53	33	-	-	-	46
COPSV7	COPBB7	COPCB7	2	139	135	128	122	113	102	91	66	33	-	57

316 SS Models	Bronze Models	Cast Iron Models	HP**	1725 RPM Pump Driven Speed										Max. Head
				3	4	GPM of water at Total Head in Feet*		5	8	10	13	15	18	
COPSV1	COPBB1	COPCB1	1/4	21	19	17	13	5	-	-	-	-	-	11
COPSV3	COPBB3	COPCB3	1/3	36	34	32	27	21	11	-	-	-	-	14
COPSV5	COPBB5	COPCB5	1/2	58	55	52	47	41	32	20	-	-	-	17
COPSV7	COPBB7	COPCB7	3/4	84	82	78	74	69	62	55	40	20	-	21

SS = Stainless Steel

(*) 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.

(**) AC HP required at specified RPM is HP rated to handle up to 100 SSU at full flow, with a maximum specific gravity of 1.1, or up to 200 SSU at 1.0 specific gravity or less.

NOTES: Max. Viscosity = For viscosity up to 400 SSU (at 1.0 specific gravity or less), increase motor HP by one size but not to exceed standard 3 HP motor at 3450 RPM or 65 in.-lbs. of torque. For fluids with a viscosity greater than 400 SSU, pump speed must be reduced below 3450 RPM.

Max. Casing PSI = 200 Max. RPM = 3450

Max. Specific Gravity = up to 1.1 for standard models (at 100 SSU or less); HP must be increased by one size for specific gravities up to 1.4.

Driver data is subject to change without notice; see label on driver for actual specifications.

Manufacturer reserves the right to change performance without notification.

Price List and Specifications – Standard Models

List Price	DRIVER			PUMP CONSTRUCTION (Wet End)						Ship Wt. (lbs.)
	Model	Shaft Dia.	Pedestal Base	Port Size FNPT	Shaft	Housing	Impeller	Body	Seals*	
316 Stainless Steel Models										
\$	COPSV1	5/8"	316 SS	1" x 3/4"	316 SS	316 SS	316 SS	316 SS	Viton	12
\$	COPSV3	5/8"	316 SS	1¼" x 1"	316 SS	316 SS	316 SS	316 SS	Viton	13
\$	COPSV5	5/8"	316 SS	1½" x 1¼"	316 SS	316 SS	316 SS	316 SS	Viton	17
\$	COPSV7	5/8"	316 SS	2" x 1½"	316 SS	316 SS	316 SS	316 SS	Viton	21
Bronze Models										
\$	COPBB1	5/8"	BR	1" x 3/4"	316 SS	BR	BR	BR	Buna-N	12
\$	COPBB3	5/8"	BR	1¼" x 1"	316 SS	BR	BR	BR	Buna-N	13
\$	COPBB5	5/8"	BR	1¼" x 1¼"	316 SS	BR	BR	BR	Buna-N	17
\$	COPBB7	5/8"	BR	2" x 1½"	316 SS	BR	BR	BR	Buna-N	21
Cast Iron Models										
\$	COPCB1	5/8"	CI	1" x 3/4"	316 SS	CI	CI	CI	Buna-N	12
\$	COPCB3	5/8"	CI	1¼" x 1"	316 SS	CI	CI	CI	Buna-N	13
\$	COPCB5	5/8"	CI	1½" x 1¼"	316 SS	CI	CI	CI	Buna-N	17
\$	COPCB7	5/8"	CI	2" x 1½"	316 SS	CI	CI	CI	Buna-N	21

SS = Stainless Steel BR = Bronze CI = Cast Iron

(*) Viton shaft seals also contain 316 stainless steel, ceramic and carbon components.

Buna-N shaft seals also contain 18-8 stainless steel, ceramic and carbon components.

NOTE: Manufacturer reserves the right to change specifications without notification.

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