

Straight Center-Discharge Pumps



▪ Max. case pressure: 75 psi ▪ TEFC motors (except 4XW69 is ODP)
Continuous-duty motors and drain plugs. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

WETTED MATERIALS
316 stainless steel impeller.

Cast-Iron—Seals are Buna N, stainless steel, carbon, and ceramic.

Stainless Steel—Seals are Viton, stainless steel, carbon, and silicon carbide.

HP	Inlet Size (NPT)	Outlet Size (NPT)	Max. Liquid Temp.	Best Efficiency Range GPM @ Head*	GPM of Water @ 30 ft. @ 40 ft. Max. Head†			1-PHASE 115/230			3-PHASE 208-230/460				
					Amps	Mfr. Model	Item No.	Amps	Mfr. Model	Item No.					
Cast Iron	1/2 hp	1 1/4 in	1 in	212 °F	18 to 40 @ 62 to 35 ft	44	35	71 ft	10.2/5.1	100MCTC1E0	4XW69	—	—	—	
		1 1/4 in	1 in	212 °F	18 to 40 @ 62 to 35 ft	44	36	71 ft	9.4/4.7	100MCTC4E0	4XW71	2.7-2.6/1.3	100MCTC5E0	4XW72	
		1 1/4 in	1 in	212 °F	18 to 42 @ 75 to 42 ft	48	43	84 ft	12.2/6.1	100MCTD4D0	4XW75	—	—	—	
	1 hp	1 1/4 in	1 in	212 °F	24 to 32 @ 60 to 50 ft	42	36	70 ft	—	—	—	2.7-2.6/1.3	100MCTD5D0	4XW76	
	1 1/2 hp	1 1/4 in	1 in	212 °F	32 to 40 @ 100 to 90 ft	—	—	122 ft	—	—	—	3.5-3.4/1.7	100MCTE5E0	415J05	
	1 hp	1 1/4 in	1 in	212 °F	22 to 45 @ 90 to 55 ft	—	52	102 ft	15.2/7.6	100MCTE4C0	4XW79	—	—	—	
	1 1/2 hp	1 1/4 in	1 in	212 °F	27 to 49 @ 110 to 75 ft	—	—	123 ft	14.4/8.7	100MCTF4B0	4XW83	—	—	—	
	1 hp	1 1/4 in	1 in	212 °F	30 to 34 @ 80 to 75 ft	—	52	100 ft	—	—	—	3.5-3.4/1.7	100MCTE5C0	415J04	
	2 hp	1 1/4 in	1 in	212 °F	32 to 50 @ 122 to 90 ft	—	—	142 ft	10.0	100MCTG4A0	3CCT3	—	—	—	
	1 1/2 hp	1 1/4 in	1 in	212 °F	32 to 52 @ 122 to 89 ft	—	—	142 ft	—	—	—	7.1-6.0/3.0	100MCTG5A0	52XG21	
Stainless Steel	1/2 hp	1 1/4 in	1 in	250 °F	16 to 39 @ 67 to 38 ft	—	37	62 ft	9.4/4.7	100MSTC4E4	4UB56	2.7-2.6/1.3	100MSTC5E4	4UB54	
		1 1/4 in	1 in	250 °F	17 to 45 @ 85 to 50 ft	—	—	95 ft	12.2/6.1	100MSTD4D4	4UB60	2.7-2.6/1.3	100MSTD5D4	4UB58	
		1 hp	1 1/4 in	1 in	250 °F	19 to 45 @ 101 to 62 ft	—	114	15.2/7.6	100MSTE4C4	4UB64	—	—	—	
		1 1/2 hp	1 1/4 in	1 in	250 °F	21 to 46 @ 119 to 80 ft	—	—	136 ft	14.4/8.7	100MSTF4B4	4UB68 †	—	—	—
		1 hp	1 1/4 in	1 in	212 °F	29 to 37 @ 88 to 80 ft	—	—	112 ft	—	—	—	3.5-3.4/1.7	100MSTE5C4	415J07
		1 1/2 hp	1 1/4 in	1 in	212 °F	38 to 42 @ 105 to 95 ft	—	—	135 ft	—	—	—	4.4-4.2/2.1	100MSTF5B4	415J10
		3 hp	1 1/4 in	1 in	250 °F	20 to 47 @ 130 to 100 ft	—	—	157 ft	13.8	100MSTH4A4	4UB72 **	9.6-8.6/4.3	100MSTH5A4	52XG18



* Use "Best gpm @ Head ft." for optimum performance. † To convert to psi, divide total feet of head by 2.31. ** 1-phase 230V. † 1-phase 115/208-230V.

Self-Priming Pumps

▪ TEFC motors with 300 stainless steel motor shaft
▪ Max. case working pressure: 75 psi
▪ Max. temp.: 200 °F
▪ Max. viscosity: 100 SSU
▪ Max. solids: 3/8" dia.

Close-coupled pumps self-prime to 6 ft. Feature clog-resistant open impellers, 1 1/2" inlet/outlet ports, and drain plug. 1-phase motors have thermal overload protection. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

WETTED MATERIALS

Cast-Iron—Impellers with Buna N, stainless steel, carbon, and ceramic mechanical seals.

Bronze and Stainless Steel—Stainless steel impeller. Seals are Viton, stainless steel, carbon, and ceramic.



Seal Material	Max. Temp. (°F)	Min. Temp. (°F)	Item No.
Buna, Carbon, Ceramic	140 °F	-25 °F	3ACF4
Carbon, Ceramic, Viton	180 °F	-40 °F	3ACF5
Silicon Carbide, Viton	200 °F	-40 °F	3ACF7
Carbon, Ceramic, PTFE	250 °F	-40 °F	3ACF6



HP	Phase	Voltage	Best Efficiency Range GPM @ Head*	Max Head†	CAST-IRON HOUSING		BRONZE HOUSING		316 STAINLESS STEEL HOUSING	
					Amps	Item No.	Amps	Item No.	Amps	Item No.
1/2 hp	1	115/208 to 230V AC	34 to 14 @ 20 to 36 ft	45 ft	8.0/3.5-4.0	5WXU4	8.0/3.5-4.0	5WXU6	8.0/3.5-4.0	5WXU2
1/2 hp	1	115/208 to 230V AC	38 to 12 @ 23 to 44 ft	50 ft	8.6/4.0-4.3	5WXU5	8.6/4.0-4.3	5WXU7	8.6/4.0-4.3	5WXU3
3/4 hp	1	115/208 to 230V AC	14 to 52 @ 45 to 20 ft	52 ft	10.7/5.2-5.3	22XP1	10.7/5.2-5.3	22XP9	10.7/5.2-5.3	22XR8
	3	208 to 230/460V AC	14 to 52 @ 45 to 20 ft	52 ft	2.5-2.4/1.2	22XP2	2.5-2.4/1.2	22XR1	2.5-2.4/1.2	22XR9
1 hp	1	115/208 to 230V AC	21 to 62 @ 45 to 22 ft	52 ft	12.2/6.3-6.1	22XP3	12.2/6.3-6.1	22XR2	12.2/6.3-6.1	22XT1
	3	208 to 230/460V AC	21 to 62 @ 45 to 22 ft	52 ft	3.3-3.2/1.6	22XP4	3.3-3.2/1.6	22XR3	3.3-3.2/1.6	22XT2
1 1/2 hp	1	115/208 to 230V AC	28 to 73 @ 45 to 25 ft	52 ft	13.5/7.6-6.7	22XP5	13.5/7.6-6.7	22XR4	13.5/7.6-6.7	22XT3
	3	208 to 230/460V AC	28 to 73 @ 45 to 25 ft	52 ft	4.5-4.6/2.3	22XP6	4.2/2.1	22XR5	4.2/2.1	22XT4
2 hp	1	115/208 to 230V AC	28 to 99 @ 60 to 30 ft	63 ft	16.6/9.4-8.3	22XP7	—	—	16.6/9.4-8.3	22XT5
	3	208 to 230/460V AC	28 to 99 @ 60 to 30 ft	63 ft	5.0/2.5	22XP8	5.0/2.5	22XR7	5.0/2.5	22XT6

* Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.

Self-Priming Pumps and Pedestal Pumps



Pumps with 1" NPT port self-prime to 7 ft.; pumps with 1 1/2", 2", and 3" NPT ports self-prime to 20 ft. For high-volume industrial and commercial applications including liquid and chemical transfer. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160. Replacement seals are available on Grainger.com.

Cast-Iron—Mechanical seals are carbon, ceramic, and Buna N. Semiopen impellers. Stainless steel shaft, except 12N810, 12N812, and 12N814 have a steel with stainless steel shaft and built-in check valve.

Stainless Steel—Mechanical seals are carbon, ceramic, and Viton. Semiopen impellers. Stainless steel shaft, except 12N811, 12N813, and 12N815 have a steel with stainless steel shaft and built-in check valve.

Pedestal Pumps—Seals are Buna N, stainless steel, carbon, and ceramic.

▪ Require 3450 rpm motors
▪ 1 and 2 HP models have 3/8" shaft, 3 HP model has 3/4" shaft



HP	Phase	Voltage (VAC)	Amps	Motor Encl.	Frame	Inlet Size (NPT)	Outlet Size (NPT)	Max. Dia. Solids	Best Efficiency Range GPM @ Head*	Max. Head†	Max. Temp	CAST-IRON HOUSING AND IMPELLER		STAINLESS STEEL HOUSING AND IMPELLER	
												Item No.	Item No.	Item No.	Item No.
1/2 hp	1	115/230V AC	7.5/3.8	ODP	56J	1 in	1 in	1/8 in	18 to 25 gpm @ 35 to 32 ft	41 ft	200 °F	—	—	5GUP0	—
	1	115/230V AC	7.5/3.8	ODP	56J	1 in	1 in	1/8 in	26 to 30 gpm @ 30 to 27 ft	41 ft	200 °F	4UA63	—	—	—
1/2 hp	1	115/230V AC	8.4/4.8	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	18 to 38 gpm @ 60 to 40 ft	78 ft	200 °F	4UA67	4UA68	—	—
	1	115/230V AC	11.3/5.6	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	30 to 50 gpm @ 62 to 50 ft	82 ft	200 °F	4UA69	4UA70	—	—
3/4 hp	3	208 to 230/460V AC	2.7-2.5/1.2	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	30 to 50 gpm @ 62 to 50 ft	82 ft	200 °F	4UA64	—	—	—
	1	115/208 to 230V AC	17.0/9.0-8.5	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	38 to 55 gpm @ 63 to 49 ft	82 ft	200 °F	—	—	5GUP1	—
1 1/2 hp	1	115/230V AC	13.5/6.4	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	4UA71	—	—	4UA72
	3	208 to 230/460V AC	4.4-3.9/2.0	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	41 to 67 gpm @ 80 to 56 ft	96 ft	200 °F	4UA73	—	—	4UA74
1 hp	1	115/230V AC	14.4/7.2	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	39 to 51 gpm @ 70 to 58 ft	90 ft	200 °F	—	—	5GUP2	—
	3	208 to 230/460V AC	3.7-3.2/1.6	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	39 to 51 gpm @ 70 to 58 ft	90 ft	200 °F	4UA65	—	—	5GUP3
2 hp	3	208 to 230/460V AC	3.7-3.2/1.6	ODP	56J	1 1/2 in	1 1/2 in	1/8 in	41 to 62 gpm @ 70 to 60 ft	90 ft	200 °F	—	—	—	—
	1	115/230V AC	20/10	ODP	56J	2 in	2 in	1/8 in	63 to 100 gpm @ 60 to 46 ft	72 ft	200 °F	4UA66	4UA76	—	—
3 hp	3	208 to 230/460V AC	5.9-5.2/2.5	ODP	56J	2 in	2 in	1/8 in	58 to 100 gpm @ 60 to 46 ft	72 ft	200 °F	4UA77	—	—	—
	3	208 to 230/460V AC	5.9-5.2/2.5	ODP	56J	2 in	2 in	1/8 in	64 to 90 gpm @ 60 to 49 ft	72 ft	200 °F	—	—	5GUP4	—
5 hp	3	208 to 230/460V AC	8.2-7.4/3.7	TEFC	182JM	3 in	3 in	3/8 in	95 to 155 gpm @ 51 to 37 ft	65 ft	180 °F	12N810	—	—	12N811
	3	208 to 230/460V AC	13.4-12.6/6.3	TEFC	184JM	3 in	3 in	3/8 in	105 to 142 gpm @ 69 to 59 ft	88 ft	180 °F	12N812	—	—	12N813
7 1/2 hp	3	208 to 230/460V AC	18.8-17.8/8.9	TEFC	184JM	3 in	3 in	3/8 in	129 to 187 gpm @ 86 to 71 ft	110 ft	180 °F	12N814	—	—	12N815

HP Req.	Bearing Type	Inlet	Outlet	Max. Dia. Solids	Best Efficiency GPM @ Head	Item No.
Pedestal Pumps (No Motor Included); Cast-Iron Housing & Impeller						
1 hp	Sealed Ball	1 1/4 in	1 1/4 in	3/8	14 @ 36 ft	5PXX7
2 hp	Sealed Ball	1 1/2 in	1 1/2 in	3/8	52 @ 62 ft	5PXX6
3 hp	Sealed Ball	2 in	2 in	3/8	60 @ 75 ft	5PXX8

* Use "Best gpm @ Head (ft.)" for optimum performance. † To convert to psi, divide total feet of head by 2.31.