

PUMPS

Chemical-Resistant & Magnetic Drive Pumps

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Details on page A1.



4JMV2

High-Volume Chemical-Resistant Centrifugal Pumps and Pump Heads

- Max. case working pressure: 150 psi
- Temp. range: 40° to 200°F
- Max. viscosity: 31 SSU
- Discharge ports rotate in 90° increments

Designed for continuous-duty high-flow applications, including chemical processing, liquid transfer, cooling, and circulating. Pumps are straight centrifugal and feature a 304 stainless steel impeller and impeller nut. Other wetted materials include carbon, ceramic, and Viton. 1-phase motors are capacitor-start, with automatic thermal reset protection and ball bearings. Pump heads require a NEMA 56J motor or 56J pump pedestal with appropriate motor. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

Notes: Not recommended for trichloroethylene.

HP	Voltage	Amps	Phase	Inlet	Outlet	Max. GPM @ Head	Best Efficiency GPM @ Head*	Min. GPM @ Head	Max. Head†	Item No.
304 Stainless Steel Housing, ODP										
1/2 hp	115/230	6.0/3.0	1	3/4 in NPT	1/2 in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	4JMV2
1/2 hp	115/230	7.2/3.6	1	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	4JMV3
1/2 hp	230/460	2.6/1.3	3	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	4JMV4
1/2 hp	115/230	8.2/4.1	1	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	4JMV5
3/4 hp	230/460	3.0/1.5	3	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	4JMV6
1 hp	115/230	14.0/7.0	1	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	4JMV7
1 1/2 hp	115/230	17.0/8.5	1	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	4JMV9
1 hp	230/460	4.8/2.4	3	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	4JMV8
1 1/2 hp	230/460	5.8/2.9	3	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	4JMW1
2 hp	115/230	21.6/10.8	1	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	4JMW2
2 hp	230/460	8.4/4.2	3	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	4JMW3
3 hp	230	15	1	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	4JMW4
3 hp	230/460	11.6/5.8	3	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	4JMW5
304 Stainless Steel Housing, TEFC										
1/2 hp	115/230	6.8/3.4	1	3/4 in NPT	1/2 in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	4JMW6
1/2 hp	115/230	7.5/3.8	1	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	4JMW7
1/2 hp	208-230/460	3.0-2.8/1.4	3	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	4JMW8
3/4 hp	115/230	9.0/4.5	1	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	4JMW9
3/4 hp	208-230/460	3.8-3.4/1.7	3	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	4JMX1
1 hp	115/230	13.0/6.5	1	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	4JMX2
1 1/2 hp	115/230	15.0/7.5	1	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	4JMX4
1 hp	208-230/460	5.3-5.0/2.5	3	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	4JMX3
1 1/2 hp	208-230/460	7.0-6.6/3.3	3	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	4JMX5
2 hp	115/230	18.0/9.0	1	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	4JMX6
2 hp	208-230/460	9.6-9.2/4.6	3	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	4JMX7
3 hp	208-230/460	11.5-10.8/5.4	3	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	4JMX9
3 hp	230	14.5	1	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	4JMX8
316 Stainless Steel Housing, TEFC										
1/2 hp	115/230	6.8/3.4	1	3/4 in NPT	1/2 in NPT	21 gpm @ 5 ft	10 gpm @ 26 ft	1 gpm @ 40 ft	48 ft	5WX9
1/2 hp	115/230	7.5/3.8	1	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	5WX10
1/2 hp	208-230/460	3.0-2.8/1.4	3	3/4 in NPT	3/4 in NPT	38 gpm @ 5 ft	28 gpm @ 22 ft	5 gpm @ 40 ft	50 ft	5WX11
3/4 hp	115/230	9.0/4.5	1	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	5WX12
3/4 hp	208-230/460	3.8-3.4/1.7	3	1 1/4 in NPT	3/4 in NPT	58 gpm @ 5 ft	30 gpm @ 41 ft	3 gpm @ 60 ft	62 ft	5WX13
1 hp	115/230	13.0/6.5	1	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	5WX14
1 1/2 hp	115/230	15.0/7.5	1	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	5WX16
1 hp	208-230/460	2.6/1.3	3	1 1/2 in NPT	1 1/4 in NPT	90 gpm @ 5 ft	48 gpm @ 40 ft	8 gpm @ 60 ft	65 ft	5WX15
1 1/2 hp	208-230/460	7.0-6.6/3.3	3	1 1/2 in NPT	1 1/4 in NPT	116 gpm @ 5 ft	50 gpm @ 48 ft	11 gpm @ 60 ft	65 ft	5WX17
2 hp	115/230	18.0/9.0	1	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	5WX18
2 hp	208-230/460	9.6-9.2/4.6	3	2 in NPT	1 1/2 in NPT	130 gpm @ 5 ft	55 gpm @ 50 ft	12 gpm @ 60 ft	68 ft	5WX19
3 hp	208-230/460	11.5-10.8/5.4	3	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	5WXU1
3 hp	230	14.5	1	2 in NPT	1 1/2 in NPT	150 gpm @ 5 ft	90 gpm @ 48 ft	13 gpm @ 70 ft	81 ft	5WXU0

HP	Req.	Inlet	Outlet	Best Efficiency GPM @ Head*	Max. Head†	Item No.
Pump Heads, 304 SS Housing						
1/2 hp	3/4 in	1/2 in	10 @ 26 ft	48		4JMY1
1/2 hp	3/4 in	3/4 in	28 @ 22 ft	50		4JMY2
3/4 hp	1 1/4 in	3/4 in	30 @ 41 ft	62		4JMY3
1 hp	1 1/2 in	1 1/4 in	40 @ 40 ft	65		4JMY4
1 1/2 hp	1 1/2 in	1 1/4 in	50 @ 48 ft	65		4JMY5
2 hp	2 in	1 1/2 in	55 @ 50 ft	68		4JMY6
3 hp	2 in	1 1/2 in	90 @ 48 ft	81		4JMY7

HP	Req.	Inlet	Outlet	Best Efficiency GPM @ Head*	Max. Head†	Motor Encl.	GPM of Water @ Ft. of Head-9	Max. Temp. @ 0 psig	Mfr. Model	Item No.
MD Series—For Mildly Corrosive Chemicals										
1/200 hp	115	1/2 in OD	1/2 in OD	Open	2.1 gpm	—	5.5 ft	150 °F	589001	2P037
1/200 hp	115	1/2 in OD	1/2 in OD	Sub	1.75 gpm	—	5 ft	150 °F	588205	2P075
1/50 hp	115	3/8 in OD	3/8 in OD	OPFC	5 gpm	—	7 ft	150 °F	581030	2P580
1/25 hp	115	3/8 in OD	3/8 in OD	OPFC	7 gpm	6 gpm	19 ft	150 °F	581031	2P579
MD-SC Series—For Semicorrosive Chemicals										
1/50 hp	115	1/2 in MPT	1/4 in MPT	Sub	5 gpm	2.7 gpm	12.8 ft	150 °F	589204	4RL36
1/25 hp	115	1/2 in FPT	1/2 in MPT	OPFC	7.7 gpm	5.7 gpm	14.6 ft	150 °F	580503	4RL30
1/2 hp	115	3/4 in FPT	1/2 in MPT	OPFC	11.8 gpm	10 gpm	21.9 ft	150 °F	581503	2P038
1/10 hp	115	1 in FPT	1/2 in FPT	OPFC	13.5 gpm	11.8 gpm	24.3 ft	150 °F	582503	2P041
1/5 hp	115	1 in FPT	1/2 in MPT	OPFC	16.5 gpm	14 gpm	27.5 ft	150 °F	583503	2P042
MD-HC Series—For Highly Corrosive Chemicals										
1/50 hp	115	1/2 in FPT	1/2 in MPT	OPFC	7.5 gpm	5.5 gpm	14.6 ft	180 °F	580603	4RL31
1/25 hp	115	1/2 in FPT	1/2 in MPT	OPFC	7.6 gpm	5.9 gpm	16.2 ft	180 °F	578603	2P039
1/25 hp	115	1/2 in FPT	1/2 in MPT	TEFC	9.1 gpm	6.5 gpm	16.3 ft	180 °F	581604	2P040
1/10 hp	115	1 in FPT	1/2 in MPT	TEFC	13.2 gpm	11.8 gpm	24.3 ft	180 °F	582604	4RL32
1/5 hp	115/230	1 in FPT	1/2 in MPT	TEFC	19.2 gpm	17 gpm	29.3 ft	180 °F	584604	2P043
1/2 hp	115/230	1 in FPT	3/4 in MPT	TEFC	—	30.5 gpm	40.5 ft	180 °F	585604	4RL34
1/2 hp	115/230	1 in FPT	3/4 in MPT	TEFC	—	36.2 gpm	51 ft	180 °F	586604	4RL35
3/4 hp	115/230	1 1/2 in FNPT	1 in MPT	TEFC	51 gpm	46.5 gpm	58.9 ft	180 °F	587010	2P044

MD Series—For Mildly Corrosive Chemicals—Pumps handle mild acids and alkalis such as photographic and plating solutions. Glass-filled polypropylene pump housing and impeller. Nitrile O-ring gasket. 3-ft., 3-conductor SJT cord. 2P875 has epoxy-encapsulated motor for submersible use.

MD-SC Series—For Semicorrosive Chemicals—Pumps handle mild acids, mild alkalis, and saltwater. Polypropylene pump housing and impeller, nitrile O-ring gasket. Encapsulated ceramic magnet. Ceramic shaft and thrust bearings. All have 6-ft., 3-conductor SJT cords with 3-prong plugs. Open-fan-cooled motors, except 4RL36 has epoxy-encapsulated motor for submersible use.

MD-HC Series—For Highly Corrosive Chemicals—Pumps handle liquids such as photographic and plating solutions, acids, alkalis, brines, and distilled water. Ryton pump housing and impeller, Viton O-ring gasket, and encapsulated ceramic magnet. Motors have 6-ft., 3-conductor SJT cords with 3-prong plugs, except 4RL34, 4RL35, and 2P044 must be field-wired.



Little GIANT Magnetic Drive Corrosives-Handling Pumps

- Max. specific gravity: 1.1
- Max. viscosity: 100 SSU

Eliminate seal-caused friction loss, wear, contamination, and leakage. All are nonsubmersible, except 2P875 can be used submersed or inline. Mount horizontally.

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