

For additional spray components and accessories, see page 1533.



3ACB9



3ACA9



## Self-Priming Flexible-Impeller Pumps

### ■ Replaceable impellers

No metal-to-metal contact. Excellent for fluid transfer, spraying, lawn/garden applications, filter systems, water drainage, and machine/equipment coolant recycling.

Note: Not to be run in a dry condition.

**Dayton**—Can be used with nonabrasive fluids in a wide range of commercial, industrial, and agricultural applications. Bronze pedestals can be easily installed with a capacitor-start electric motor with sufficient starting torque.

- Max. temp.: 180°F
- 1725 rpm motors (3ACA9 to 3ACB2 do not include motors)

| HP†                 | Voltage | Amps     | Inlet/Outlet (in.) | NEMA Motor Frame | Seal        | Impeller Material | GPM of Water<br>Total ft. of Head<br>30 |          | Max. Head (ft.) | Max. Pressure (psi) | Suction Lift (ft.)   | Max. SSU @ 1725 rpm* | Brand  | Mfr. Model | Item No. |
|---------------------|---------|----------|--------------------|------------------|-------------|-------------------|---|----------|-----------------|---------------------|----------------------|----------------------|--------|------------|----------|
| Pump w/Motor        |         |          |                    |                  |             |                   |   |          |                 |                     |                      |                      |        |            |          |
| 304 Stainless Steel |         |          |                    |                  |             |                   |   |          |                 |                     |                      |                      |        |            |          |
| 1/8 hp              | 115/230 | 9.4/4.7  | 1/2 NPT x 3/4 GHT  | 56YZ             | Nitrile Lip | Nitrile           | 7.1 gpm                                 | 6.1 gpm  | 76              | 32.9 psi            | 10                   | 5,000 SUS            | Dayton | 3ACC4      | 3ACC4    |
| 1/8 hp              | 115/230 | 11.2/5.6 | 3/4 NPT            | 56YZ             |             |                   | 11.9 gpm                                | 9.6 gpm  | 80              | 34.6 psi            | 10                   | 5,000 SUS            | Dayton | 3ACC5      | 3ACC5    |
| 3/4 hp              | 115/230 | 14.0/7.0 | 1 NPT              | 56YZ             |             |                   | 20.6 gpm                                | 17.8 gpm | 80              | 34.6 psi            | 10                   | 5,000 SUS            | Dayton | 3ACC6      | 3ACC6    |
| 1 hp                | 115/230 | 11/5.5   | 1 1/4 NPT          | 56YZ             |             |                   | 25 gpm                                  | 22 gpm   | 85              | 36.7 psi            | 10                   | 5,000 SUS            | Dayton | 3ACC7      | 3ACC7    |
| 1 1/2 hp            | 115/230 | 14.2/7.1 | 1 1/2 NPT          | 56YZ             |             |                   | 28 gpm                                  | 22 gpm   | 92              | 39.8 psi            | 10                   | 5,000 SUS            | Dayton | 3ACC8      | 3ACC8    |
| Brass               |         |          |                    |                  |             |                   |   |          |                 |                     |                      |                      |        |            |          |
| 1/8 hp              | 115/230 | 9.4/4.7  | 1/2 NPT x 3/4 GHT  | 56YZ             | Nitrile Lip | Nitrile           | 7.1 gpm                                 | 6.1 gpm  | 76              | 32.9 psi            | 10                   | 5,000 SUS            | Dayton | 3ABZ4      | 3ABZ4    |
| 3/4 hp              | 115/230 | 13.5/6.7 | 1 NPT              | 56YZ             |             |                   | 23 gpm                                  | 20.7 gpm | 86              | 37.2 psi            | 16-20 Dry, 20-22 Wet | 5,000 SUS            | Dayton | 3ACC1      | 3ACC1    |
| 1 hp                | 115/230 | 11.0/5.5 | 1 1/4 NPT          | 56YZ             |             |                   | 25 gpm                                  | 22 gpm   | 85              | 36.7 psi            | 10                   | 5,000 SUS            | Dayton | 3ACD3      | 3ACD3    |
| 1 1/2 hp            | 115/230 | 18.6/9.3 | 1 1/2 NPT          | 56YZ             |             |                   | 28 gpm                                  | 22 gpm   | 92              | 39.8 psi            | 10                   | 5,000 SUS            | Dayton | 3ACD4      | 3ACD4    |
| Bronze              |         |          |                    |                  |             |                   |   |          |                 |                     |                      |                      |        |            |          |
| 1/8 hp              | 115/230 | 7.2/3.6  | 1/2 NPT x 3/4 GHT  | 56YZ             | Nitrile Lip | Nitrile           | 9.6 gpm                                 | 6.8 gpm  | 50              | 21.6 psi            | 16-20 Wet, 20-22 Wet | 5,000 SUS            | Dayton | 3ACB9      | 3ACB9    |
| 1/8 hp              | 115/230 | 11.2/5.6 | 3/4 NPT            | 56YZ             |             |                   | 11.9 gpm                                | 9.6 gpm  | 80              | 34.6 psi            | 10                   | 5,000 SUS            | Dayton | 3ABZ5      | 3ABZ5    |
| 3/4 hp              | 115/230 | 14.0/7.0 | 1 NPT              | 56YZ             |             |                   | 20.6 gpm                                | 17.8 gpm | 80              | 34.6 psi            | 10                   | 5,000 SUS            | Dayton | 3ABZ6      | 3ABZ6    |

| HP†                             | Inlet/Outlet (in.) | Seals           | Impeller | GPM of Water @ 10 ft. of Head | GPM of Water @ 10 ft. of Head | Max. Head (ft.) | Max. Pressure (psi) | Max. SSU @ 1725 rpm* | Brand  | Mfr. Model | Item No. |
|---------------------------------|--------------------|-----------------|----------|-------------------------------|-------------------------------|-----------------|---------------------|----------------------|--------|------------|----------|
| <b>Pump Head, Close Coupled</b> |                    |                 |          |                               |                               |                 |                     |                      |        |            |          |
| <b>Bronze and Brass</b>         |                    |                 |          |                               |                               |                 |                     |                      |        |            |          |
| 1/8 hp                          | 1/2 NPT            | Carbon, Ceramic | Nitrile  | 5.5 gpm                       | 4.8 gpm                       | 70              | 30.3 psi            | 5,000 SUS            | Dayton | 3ACA9      | 3ACA9    |
| 3/4 hp                          | 3/4 NPT            |                 |          | 11.5 gpm                      | 10.6 gpm                      | 80              | 34.6 psi            | 5,000 SUS            | Dayton | 3ACB1      | 3ACB1    |
| 1 hp                            | 1 NPT              |                 |          | 19.6 gpm                      | 18 gpm                        | 85              | 36.7 psi            | 5,000 SUS            | Dayton | 3ACB2      | 3ACB2    |

\* Pedestal flow based at 1725 rpm, at stated horsepower. † Recommended HP.

| For Use With                         | Brand   | Item No. | For Use With                                | Brand  | Item No. | For Use With   | Brand  | Item No. |
|--------------------------------------|---------|----------|---|--------|----------|----------------|--------|----------|
| <b>Replacement Flexible Impeller</b> |         |          | <b>Nitrile</b>                              |        |          | <b>Nitrile</b> |        |          |
| EPDM                                 |         |          | 3ACA4, 3ACA5, 3ACA6, 3ACA7, 3ACA8           | Dayton | 3ACD9    | 3ABZ4          | Dayton | 3ABZ7    |
| 4UL38                                | Jabscos | 2XE60    | 3ACA9                                       | Dayton | 3ACB3    | 3ABZ5          | Dayton | 3ABZ8    |
| Neoprene                             |         |          | 3ACB1                                       | Dayton | 3ACB4    | 3ABZ6          | Dayton | 3ABZ9    |
| Mfr. No. 30510-7000                  | Jabscos | 2XE55    | 3ACB2                                       | Dayton | 3ACB5    | 3ACB9          | Dayton | 3ACC2    |
| Mfr. No. 30520-7000                  | Jabscos | 2XE57    |   |        |          | 3ACC1          | Dayton | 3ACC3    |
| Viton                                |         |          | <b>Replacement Impeller/Sleeve Assembly</b> |        |          | 3ACC4          | Dayton | 3ACE3    |
| 4UL37                                | Jabscos | 2XE56    | Neoprene                                    |        |          | 3ACC5          | Dayton | 3ACE4    |
| Mfr. No. 17430-7000                  | Jabscos | 2XE54    | 3ABZ4                                       | Dayton | 3ACA1    | 3ACC6          | Dayton | 3ACC9    |
| Mfr. No. 30520-7000                  | Jabscos | 2XE59    | 3ABZ5                                       | Dayton | 3ACA2    | 3ACC7          | Dayton | 3ACD1    |
| <b>Replacement Impeller</b>          |         |          | 3ABZ6                                       | Dayton | 3ACA3    | 3ACD3          | Dayton | 3ACD5    |
| Neoprene                             |         |          | 3ACB9                                       | Dayton | 3ACE1    |                |        |          |
| 3ACA9                                | Dayton  | 3ACB6    | 3ACC1                                       | Dayton | 3ACE2    |                |        |          |
| 3ACB1                                | Dayton  | 3ACB7    | 3ACD3                                       | Dayton | 3ACD7    |                |        |          |
| 3ACB2                                | Dayton  | 3ACB8    |   |        |          |                |        |          |



1MC27

1MDA1



## High-Pressure Pump Accessories

**Adjustable Chemical Injectors**—In-line, corrosion-resistant injectors can be mounted downstream, after the pressure pump and regulating valve, to inject liquid detergents or cleaning agents. Intended for use with a double lance, rollover nozzle, or quick-connect nozzle. Brass, stainless steel, and ceramic construction with Buna N seals.

**High-Pressure and Regulating Unloader Valves**—Protect pump and system components from surge shock damage that can occur when spray guns are shut off at high pressure. Brass and stainless steel construction with Buna N seals.

**Inlet Water Filter**—Machined aluminum filter assures a clean water stream for any high-pressure pump. Filter is 50 mesh.

**Regulating Pressure Relief Valve**—Bypasses the required amount of water to maintain constant system pressure at all times, whether spray gun is open or closed. Brass and 300 stainless steel construction with Buna N seals.

**Regulating Valves**—Protect pumping systems from excess pressure. Brass bodies. Wetted materials: brass, stainless steel, Buna N, plastic, and steel on valves with male outlets; brass, stainless steel, Buna N, and steel on valves with female outlets.

1MDA1 and 1MDA2 have a bolt-on design with internal bypass system. 1MDA1 fits pumps 4WXV7 to 4WXV9 and 4WXW1 to 4WXW6. 1MDA2 fits pumps 4WX5, 4WXW6, 5ZNT5 to 5ZNT7, 5ZNT9, 5ZNU0, and 5ZNU1.

1MDA3 and 1MDA4 feature a 1/4" accessory port.

**Safety Valve**—For use as a secondary safety device to help keep pump and system pressure from reaching dangerous levels; must always be used with a pressure regulator or unloader. Adjustable range: 1000 to 4000 psi. 3/4" hose barb discharge. Brass and 400 stainless steel construction with Delrin seals.

**Thermal Valve**—Maintains a max. water temp. of 140°F to protect pump from possible heat damage while in bypass mode. Brass construction with Buna N seals.

**Water Check Valves**—Brass and stainless steel construction with Buna N seals. Can be mounted in a vertical or horizontal position.

| Size   | Flow     | Max. Water Pressure | L        | W        | Brand   | Item No. |
|--------|----------|---------------------|----------|----------|---------|----------|
| 1/4 in | 6.6 gpm  | 4500 psi            | 2 1/8 in | 3/8 in   | Mecline | 20FV59   |
| 3/8 in | 10.5 gpm | 5800 psi            | 2 1/4 in | 1 1/8 in | Mecline | 20FV60   |
| 1/2 in | 21 gpm   | 5800 psi            | 3 1/2 in | 1 1/2 in | Mecline | 20FV61   |

| Description                      | Inlet Port (in.)       | Outlet Port (in.) | Bypass Port (in.) | Flow Range (gpm) | Max. Pressure (psi) | H (in.) | Max. Fluid Temp. (°F) | Brand              | Item No. |
|----------------------------------|------------------------|-------------------|-------------------|------------------|---------------------|---------|-----------------------|--------------------|----------|
| Adjustable Chemical Injector     | 3/8 M                  | 3/8 M             | —                 | 2 to 3           | 4,500 psi           | 3       | 200 F                 | Dayton             | 1MC27    |
|                                  | 3/8 M                  | 3/8 M             | —                 | 3 to 4           | 4,500 psi           | 3       | 200 F                 | Dayton             | 1MC28    |
|                                  | 3/8 M                  | 3/8 M             | —                 | 4 to 5.5         | 4,500 psi           | 3       | 200 F                 | Dayton             | 1MC29    |
| High Pressure Unloader Valve     | 3/8 (M)NPT             | 3/8 NPT(M)        | 3/8 (F)NPT        | 0.5 to 8         | 2,900 psi           | 3 5/8   | 194 F                 | Mecline            | 20FV57   |
|                                  | 1/2 (F)NPT             | 1/2 NPT(H)        | 1/2 (F)NPT        | 2.5 to 26.4      | 4,800 psi           | 8 3/4   | 194 F                 | Mecline            | 20FV58   |
| Inlet Water Filter               | 3/4 Garden Hose Thread | 1/2 M             | 1/4 F             | 8                | 100 psi             | 2 1/9   | —                     | Dayton             | 19C694   |
| Regulating Pressure Relief Valve | 3/8 F                  | 3/8 F             | 3/8 F             | 0 to 6.3         | 4,060 psi           | 4 3/8   | 194 F                 | A.R. North America | 5JKL1    |
| Regulating Unloader Valve        | 3/8 F                  | 3/8 F             | —                 | 0 to 7.8         | 3,650 psi           | 6 3/4   | 190 F                 | Dayton             | 1MPP2    |
|                                  | 1/2 F                  | 3/8 M             | —                 | 2 to 3           | 2,600 psi           | 7 1/2   | 190 F                 | Dayton             | 1MDA1    |
|                                  | 1/2 F                  | 3/8 M             | —                 | 3 to 5.5         | 3,650 psi           | 8 1/2   | 190 F                 | Dayton             | 1MDA2    |
| Regulating Valve                 | 3/8 F                  | 3/8 F             | (2) 3/8 F         | 0 to 10.5        | 3,650 psi           | 6 3/4   | 190 F                 | Dayton             | 1MDA3    |
|                                  | 3/8 F                  | 3/8 F             | (2) 3/8 F         | 0 to 10.5        | 4,500 psi           | 6 3/4   | 190 F                 | Dayton             | 1MDA4    |
|                                  | 3/8 F                  | 3/8 M             | 3/8 F             | 0 to 9           | 5,000 psi           | 8 1/8   | 190 F                 | Dayton             | 1MDA5    |
|                                  | 3/8 M                  | —                 | —                 | 0 to 6           | 4,000 psi           | 2       | 200 F                 | Dayton             | 1MDA7    |
| Safety Valve                     | 3/8 M                  | —                 | —                 | —                | —                   | —       | —                     | Dayton             | 1MDA6    |
| Thermal Valve                    | 1/2 M                  | —                 | —                 | —                | 200 psi             | 1 3/4   | 140 F                 | Dayton             | 1MDA6    |