

# ASSEMBLE TO ORDER PUMPS

## Component Specification Chart

### TO BUILD YOUR PUMP, FILL IN KEY LETTERS FROM CHARTS

|                          |                        |                               |                            |                                   |                           |
|--------------------------|------------------------|-------------------------------|----------------------------|-----------------------------------|---------------------------|
| <b>1</b> Basic Pump      | <b>2</b> Select Valve  | <b>3</b> Select Valve Control | <b>4</b> Select Gauge      | <b>5</b> Select Gauge Accessories | <b>6</b> Pressure Control |
|                          |                        |                               |                            |                                   |                           |
| <b>7</b> Pressure Switch | <b>8</b> Motor Control | <b>9</b> Reservoir            | <b>10</b> Level/Temp Gauge | <b>11</b> Choose Casters          | <b>12</b> Select Oil      |
|                          |                        |                               |                            |                                   |                           |

Use the charts numbered from 1-12 below to select the pump, valve, gauge and other accessories to suit your needs. For the pump, fill in the basic number plus key letter in block 1 above and the key letter only in the blocks 2-12 above for any of the other items. Refer to the appropriate pages in this catalog for more specific information on the products you need.

### 1 BASIC PUMP (See pages 82-94)

| BASIC PUMP NUMBERS   |                     |                       |                      |                     |                      | SPECIFICATIONS                                |        |    |
|----------------------|---------------------|-----------------------|----------------------|---------------------|----------------------|---|--------|----|
| PE55<br>(10,000 psi) | PE90<br>(5,000 psi) | PE120<br>(10,000 psi) | PA55<br>(10,000 psi) | PA90<br>(5,000 psi) | PG55<br>(10,000 psi) | NOTE: Customer must specify voltage required. |        |    |
|                      |                     |                       |                      |                     |                      | Power Source                                  | rpm    | hp |
| A or AC*             | A or AC*            |                       |                      |                     |                      | 115V-60 Hz, 1Ø                                | 12,000 | 1½ |
|                      |                     |                       |                      |                     |                      | 110V-50 Hz, 1Ø                                | 12,000 | 1½ |
| B or BC*             | B or BC*            |                       |                      |                     |                      | 230V-60 Hz, 1Ø                                | 12,000 | 1½ |
|                      |                     |                       |                      |                     |                      | 220V-50 Hz, 1Ø                                | 12,000 | 1½ |
| † C or CC*           | † C or CC*          |                       |                      |                     |                      | 115V-60 Hz, 1Ø                                | 3,450  | 1½ |
| † C50                | † C50               |                       |                      |                     |                      | 110V-50 Hz, 1Ø                                | 2,850  | 1½ |
| † D or DC*           | † D or DC*          |                       |                      |                     |                      | 230V-60 Hz, 1Ø                                | 3,450  | 1½ |
| † D50                | † D50               |                       |                      |                     |                      | 220V-50 Hz, 1Ø                                | 2,850  | 1½ |
| † F60 **             | † F60**             |                       |                      |                     |                      | 208, 230/460V-60 Hz, 3Ø                       | 3,450  | 1½ |
| † F50 **             | † F50**             |                       |                      |                     |                      | 220/380V-50 Hz, 3Ø                            | 2,850  | 1½ |
|                      |                     | M60 **                |                      |                     |                      | 208, 230/460V-60 Hz, 3Ø                       | 3,450  | 3  |
|                      |                     | M50 **                |                      |                     |                      | 220/380V-50 Hz, 3Ø                            | 2,850  | 3  |
|                      |                     |                       | A                    | A                   |                      | Air Motor                                     | 3,000  | 3  |
|                      |                     |                       |                      |                     | A                    | Gas Engine                                    | 3,600  | 6  |

\*Suffixes AC, BC, CC & DC indicate pumps for Canadian orders only.

NOTE: All electric units have 24 volt secondary circuit.

\*\*Specify voltage required.

† These pumps do not start under full load unless valve is in "neutral" position (requires open or tandem center valve) and are not recommended for frequent starting and stopping.

### 2 VALVE (See pages 122-129)

| Manifold/Manual/Air Operated Directional Valves |  | Function             | Manifold/Manual/Air Operated Directional Valves |  | Function             |
|---|--|----------------------|---|--|----------------------|
| AB  | 9628 manual, tandem center                 | 4-way, 3 pos. valves | O   | 9609 manual, pressure compensated flow control | 3-way, 4 pos.        |
| AC  | 9632 manual "twin" tandem and open center  |                      | R   | 9506 manual, tandem center "Posi-Check"        |                      |
| A   | None                                       | —                    | RR  | 9511 manual, open center                       | 4-way, 3 pos. valves |
| B   | 9626 manifold                              | Manifold             | S   | 9500 manual, tandem center                     |                      |
| C   | 9584 manual                                | 3-way,               | T   | 9507 manual, closed center "Posi-Check"        |                      |
| D   | 9582 manual                                | 2 pos. valves        | U   | 9501 manual, closed center                     |                      |
| E   | 9610 automatic, pilot operated             | valves               | <b>Solenoid Operated Directional Valves</b>     |  | <b>Function</b>      |
| G   | 9504 manual                                | 3/4-way,             | FF  | 9569 solenoid operated - 24 volt               | 3-way, 2 pos.        |
| JJ  | 9594 air operated                          | 2 pos. valves        | HH  | 9572 solenoid operated - 24 volt               | 3/4-way, 2 pos.      |
| L   | 9502 manual, closed center "non-interflow" | 3-way,               | PP  | 9599 solenoid operated - 24 volt               | 3-way, 3 pos.        |
| M   | 9520 manual, tandem center "Posi-Check"    | 3 pos. valves        | VV  | 9512 solenoid operated - 24 volt               | 4-way,               |
| N   | 9576 manual, metering tandem center        | valves               | WW  | 9615 solenoid operated - 24 volt               | 3 pos. valves        |

### 3 VALVE CONTROL (See page 130)

| Valve Remote Control |                                    | Use with Valve | Valve Remote Control |                                    | Use with Valve |
|----------------------|------------------------------------|----------------|----------------------|------------------------------------|----------------|
| A                    | None                               | —              | Z                    | 202778 remote hand control, 10 ft. | 9512 or 9615   |
| X                    | 304718 remote hand control, 10 ft. | 9572           | ZF                   | 309653 remote foot control, 10 ft. | 9512, 9615,    |
| XF                   | 309652 remote foot control, 10 ft. | 9572           |                      |                                    | 9569 or 9599   |
| Y                    | 202777 remote hand control, 10 ft. | 9569 or 9599   | ZZ                   | 209593 remote hand control, 12 ft. | 9594           |

#### 4 GAUGE (See page 110-111)

| Pressure Gauges |   |
|-----------------|---|
| A               | None  |
| B               | Other – Specify                                   |
| G               | 9041 0-10,000 psi – 0-689 Bar (2½" dia.)          |
| H               | 9040 0-10,000 psi – 0-689 Bar (Liquid) (2½" dia.) |
| J               | 9051 0-10,000 psi – 0-689 Bar (4" dia.)           |
| M               | 9052 0-10,000 psi – 0-689 Bar (Liquid) (4" dia.)  |

#### 6 PRESSURE CONTROL (See page 119)

| Pressure Controls |   |
|-------------------|---|
| A                 | With standard external pressure regulator   |
| C                 | Other – specify   |
| D                 | 350199 premium external pressure regulator.<br>See Power Team Catalog product No. 9633 for details. |

**NOTE:** Pressure controls are factory pre-set at 10,000 psi unless otherwise specified.

#### 8 MOTOR CONTROL (See page 130)

| Electric Motor Controls |   |
|-------------------------|---|
| A                       | Standard On/Off/Pulse control (does not include remote switch) for A, B, C, D, F and M electric pumps. Also used for remote controlled solenoid valves. |
| B                       | None  |
| C                       | 25017 remote motor hand switch, 10 ft.  |
| D                       | 203225 remote motor hand switch, 10 ft. (heavy duty)  |
| E                       | 10461 remote motor foot switch, 10 ft.  |
| Air Motor Controls      |   |
| AA                      | Other   |
| B                       | None  |
| P                       | 27876 hand motor control (for PA55 & PA90 series)   |
| Q                       | 27877 foot motor control (for PA55 & PA90 series)   |

#### 10 OIL LEVEL/TEMP. GAUGE (SEE PAGE 132)

| Oil Level/Temperature Gauge |                                    |
|-----------------------------|------------------------------------|
| A                           | None                               |
| BB                          | 350431 oil level/temperature gauge |

#### 11 CASTERS (See page 110)

| Casters |  |
|---------|--|
| A       | None   |
| C       | 10494 caster for use with 400630R9 reservoir<br>(Specify quantity of four) |

#### 5 GAUGE ACCESSORY (See page 53)

| Gauge Accessories |  |
|-------------------|--|
| A                 | None                                     |
| N                 | 9049 pulsation dampener – All dry gauges |

#### 7 PRESSURE SWITCH (See page 131)

| Pressure Switch |   |
|-----------------|---|
| A               | None  |
| B               | 9625 electric pressure switch (500-10,000 psi)<br><b>NOTE:</b> Pressure switch is factory pre-set at 10,000 psi unless otherwise specified. |
| C               | 9641 pilot operated air control valve – N.C.  |
| D               | 9643 pilot operated air control valve – N.O.  |

#### 9 RESERVOIR (See page 133)

| Reservoirs | Capacity   |         |
|------------|--|---------|
| A          | None   |         |
| B          | Other – Specify  |         |
| D          | 400630R9 – PE55, PE90, PE120, PA55 and PA90 series   | 2½ gal. |
| E          | 61165† – PE55, PE90, PE120, PA55 and PA90 series<br>(Oil temperatures in excess of 150° F. may cause permanent failure of the thermoplastic reservoir) | 2 gal.  |
| F          | RP22‡ – PE55, PE90, PE120, PA55 and PA90 series  | 2½ gal. |
| H          | 617990R9<br>Same as D except with drain port   | 2½ gal. |
| J          | RP50 – PE55, PE90, PE120, PA55 and PA90 series   | 5 gal.  |
| K          | 401370R9 – PG55 series   | 5 gal.  |
| P          | 209124 – PE55, PE90, PE120, PA55 and PA90 series   | 7 gal.  |
| V          | RP100 – PE55, PE90, PE120, PA55 and PA90 series  | 10 gal. |
| W          | RP101 – PG55 series  | 10 gal. |

**NOTE:** Includes cover adapter and misc. accessories when applicable.

†High density polyethylene.

‡Aluminum.

#### 12 OIL (See page 112)

| Oil |  |
|-----|--|
| E   | Ship pump without oil                    |
| F   | 9637 1 gal. standard hydraulic oil       |
| G   | 9638 2½ gal. standard hydraulic oil      |
| Q   | 9639 1 gal. Flame-Out hydraulic oil      |
| R   | 9640 2½ gal. Flame-Out hydraulic oil     |
| U   | 9645 1 gal. biodegradable hydraulic oil  |
| V   | 9646 2½ gal. biodegradable hydraulic oil |

**NOTE:** Select type of hydraulic oil and specify quantity.

