



S70-200 SPL/MAY 99

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## Service Parts List



# ROTARY SCREW COMPRESSOR UNITS

WITH

QUANTUM CONTROL

MODELS: RWB II 60 through 856

### HOW TO USE SERVICE PARTS LIST

This Service Parts List is for standard Frick RWB II Plus, Rotary Screw Compressor Units, Models 60—856. Units built with special options, modifications, or conversions are not taken into consideration.

This Service Parts List provides identification for detail parts by Figure and Index Number, Item Number and Description. To determine correct replacement item, locate item on Figure 1, 2, etc., note index number, refer to corresponding index number in parts list for item number and description. Quantity per assembly is located in QTY. column. Unit of measure is always "each" unless specified otherwise in Quantity column. When Ref. is in QTY. column, this means that the Item Number is for information only and is not necessarily a service replacement part. Contact Frick Parts Department for more information. REV. (Revision) column tells the level of the engineering drawing parts were taken from. The P & I REF. column gives the reference number of the item as shown on the Piping and Instrumentation drawing.

The Numerical Parts List can be used to locate a specific item in the Service Parts List. Look for the part by Frick Item Number and it will refer you to the Figure and Index Number where it is located.

Abbreviations found in this manual include:

|      |             |      |                         |
|------|-------------|------|-------------------------|
| A/R  | As Required | SW   | Socket Weld             |
| HW   | Hand Wheel  | TSOC | Thermosyphon Oil Cooler |
| Ref. | Reference   | WIL  | Weld-In-Line            |
| SC   | Seal Cap    | WCOC | Water Cooled Oil Cooler |

The **Unit Data Plate** listing model/serial number etc., is normally located to the left of the microprocessor, attached to the frame below the compressor motor.

**NOTE: PLEASE PROVIDE FRICK ORDER NUMBER, UNIT MODEL NUMBER, AND UNIT SERIAL NUMBER WHEN REQUESTING A QUOTATION OR PLACING AN ORDER. FAILURE TO INCLUDE THIS INFORMATION MAY DELAY PROCESSING OF YOUR REQUEST.**

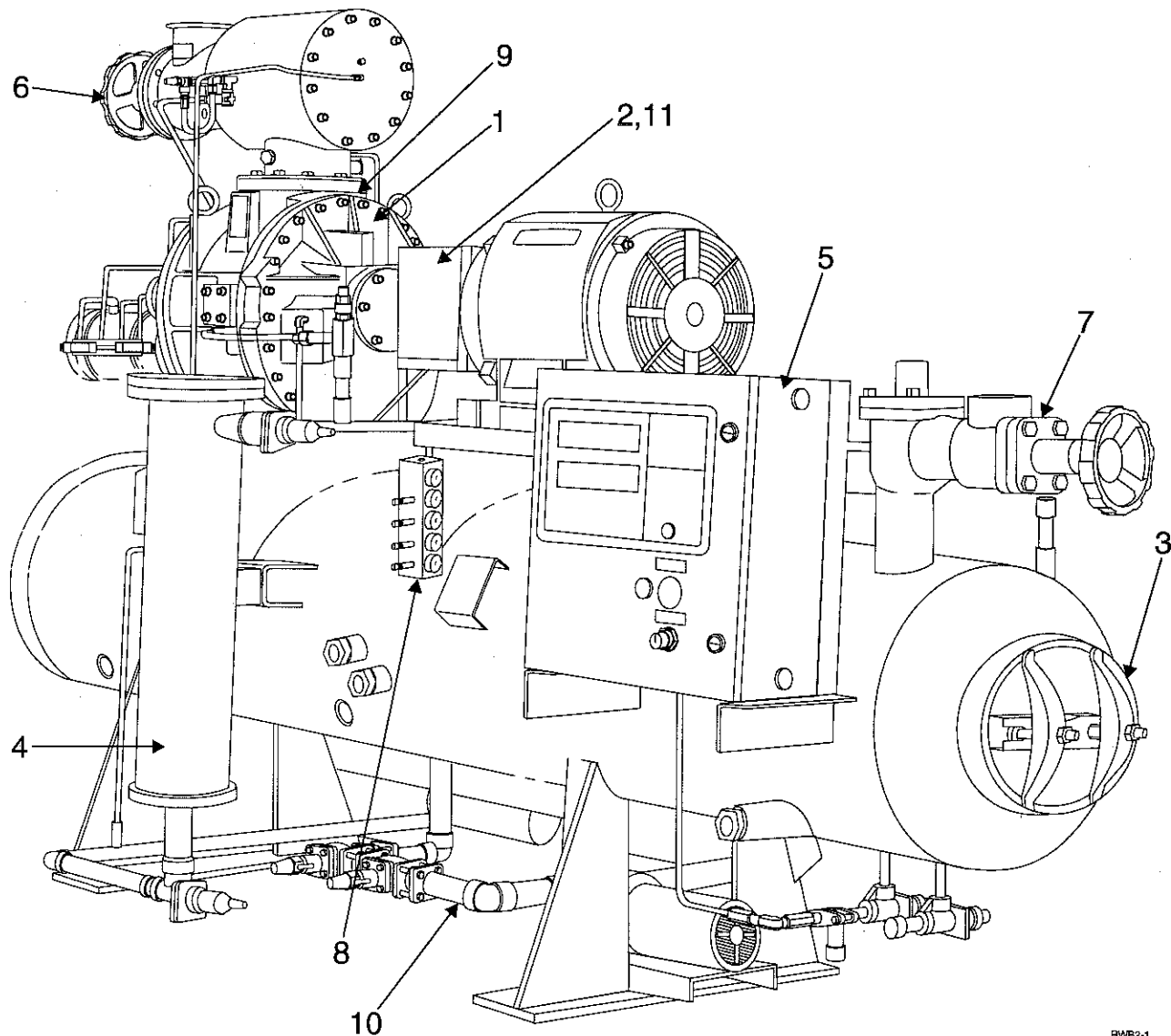
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**RECOMMENDED SPARE PARTS - CURRENT DESIGN**

| DESCRIPTION                                                 | QTY. | MODEL   | ITEM NUMBER |
|-------------------------------------------------------------|------|---------|-------------|
| <b>QUANTUM CONTROL:</b>                                     |      |         |             |
| Assembly, VGA Display, Sharp (Display only, 333Q0001581)    | 1    | ALL     | 640C0021G01 |
| Inverter, Sharp                                             | 1    | ALL     | 333Q0001582 |
| Power Supply                                                | 1    | ALL     | 640C0022G01 |
| Battery, 3V                                                 | 1    | ALL     | 333Q0001193 |
| Switch, Power                                               | 1    | ALL     | 333Q0001194 |
| Block, Contact, Power Switch                                | 1    | ALL     | 333Q0001195 |
| Circuit Breaker, 10 Amp                                     | 1    | ALL     | 333Q0001721 |
| Circuit Breaker, 16 Amp                                     | 1    | ALL     | 333Q0001722 |
| Cable, Key Pad                                              | 1    | ALL     | 640B0031H01 |
| Cable, CCFT Backlight Inverter (for Sharp Display)          | 1    | ALL     | 640B0032H01 |
| Cable, LCD Display (for Sharp Display)                      | 1    | ALL     | 640B0045H01 |
| Cable Harness, Power                                        | 1    | ALL     | 640B0038H01 |
| Cable Harness, Board 1                                      | 1    | ALL     | 640B0041H01 |
| Keypad, Overlay                                             | 1    | ALL     | 640D0060H01 |
| Circuit Board, Main                                         | 1    | ALL     | 640D0061H01 |
| Fuse, .25 Amp, 250V, Main Board                             | 1    | ALL     | 333Q0001327 |
| Module, Output, 280V (For 115/230V)                         | 2    | ALL     | 111Q0281061 |
| Module, Input, 90-140V (For 115V)                           | 1    | ALL     | 333Q0000116 |
| Fuse, 5 Amp, 250V, I/O Board                                | 4    | ALL     | 333Q0001326 |
| Relay, 3PDT, 115V                                           | 1    | ALL     | 333Q0000206 |
| <b>UNIT:</b>                                                |      |         |             |
| Temperature Probe (TE-1—4)                                  | 1    | ALL     | 640A0035H01 |
| Transducer, Pressure, 0—200 PSIA (PE-4)                     | 1    | ALL     | 333Q001345  |
| Transducer, Pressure, 0—500 PSIA (PE-1—3)                   | 1    | ALL     | 111Q0280887 |
| Potentiometer, Slide Stop                                   | 1    | ALL     | 111Q0041148 |
| Kit, Potentiometer, Slide Valve                             | 1    | ALL     | 534D0523G02 |
| Valve, Solenoid, Slide Stop/Slide Valve, Vickers            | 1    | ALL     | 951A0056H39 |
| Coil For 951A0056H39 Above                                  | 1    | ALL     | 951A0056H40 |
| Heater, Oil, 500W, 120V                                     | 1    | ALL     | 913A0047H01 |
| Heater, Oil, 500W, 240V                                     | 1    | ALL     | 913A0047H03 |
| Filter, Coalescing, Standard                                | A/R  | 60—399  | 531B0019H01 |
| Filter, Coalescing, Convuluted                              | A/R  | 496—856 | 531B0065H01 |
| Gasket, Manway For Coalescer                                | 1    | 60—76   | 531A0105H03 |
| Gasket, Manway For Coalescer                                | 1    | 100—856 | 531A0105H04 |
| Filter, Oil, 15 Micron                                      | A/R  | ALL     | 531A0028H01 |
| Gasket, End Cover For 531A0028H01 Above                     | A/R  | ALL     | 959A0082H01 |
| Gasket, Clamping Plate For 531A0028H01 Above                | A/R  | ALL     | 959A0053H01 |
| Shaft Seal Replacement Kit                                  | 1    | 60—76   | 534M0163G01 |
| Shaft Seal Replacement Kit                                  | 1    | 100—134 | 534M0163G02 |
| Shaft Seal Replacement Kit                                  | 1    | 177—270 | 534M0163G03 |
| Shaft Seal Replacement Kit                                  | 1    | 316—399 | 534M0163G04 |
| Shaft Seal Replacement Kit                                  | 1    | 496—856 | 534M0163G05 |
| Element, In-Line Oil Filter, Prelube Pump (Spin-on Element) | 1    | 60—222  | 535A0368H01 |
| Element, In-Line Oil Filter, Prelube Pump (Spin-on Element) | 1    | 270—676 | 535A0369H01 |

**Note: This list is based on one unit. When stocking for more than one unit, the quantity should be adjusted to meet your individual requirements.**



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Figure 1. General Arrangement, Typical.

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|--------------------------------------------------------|------|------|---------------|
| 1—              | 720E0001       | RWB II 60 & 76, R-717, Screw Compressor Unit           | Ref. | V    |               |
|                 | 720E0002       | RWB II 60 & 76, R-22, Screw Compressor Unit            | Ref. | V    |               |
|                 | 720E0064       | RWB II 100 & 134, R-717, R-22, Screw Compressor Unit   | Ref. | A    |               |
|                 | 720E0005       | RWB II 177 & 222, R-717, Screw Compressor Unit         | Ref. | Y    |               |
|                 | 720E0006       | RWB II 177 & 222, R-22, Screw Compressor Unit          | Ref. | Y    |               |
|                 | 720E0043       | RWB II 270, R-717, Screw Compressor Unit               | Ref. | M    |               |
|                 | 720E0044       | RWB II 270, R-22, Screw Compressor Unit                | Ref. | N    |               |
|                 | 720E0007       | RWB II 316 & 399, R-717, Screw Compressor Unit         | Ref. | D    |               |
|                 | 720E0008       | RWB II 316 & 399, R-22, Screw Compressor Unit          | Ref. | D    |               |
|                 | 720E0066       | RWB II 480, R-717, Screw Compressor Unit               | Ref. | —    |               |
|                 | 720E0067       | RWB II 480, R-22, Screw Compressor Unit                | Ref. | —    |               |
|                 | 720E0050       | RWB II 496, R-22, Screw Compressor Unit                | Ref. | K    |               |
|                 | 720E0049       | RWB II 496, R-717, Screw Compressor Unit               | Ref. | K    |               |
|                 | 720E0051       | RWB II 676, R-717, Screw Compressor Unit               | Ref. | J    |               |
|                 | 720E0052       | RWB II 676, R-22, Screw Compressor Unit                | Ref. | J    |               |
|                 | 720E0057       | RWB II 856, R-717, Screw Compressor Unit               | Ref. | A    |               |
|                 | 720E0058       | RWB II 856, R-22, Screw Compressor Unit                | Ref. | A    |               |
| —1              | —              | Screw Compressor (See Figure 2)                        | 1    |      | C-1           |
| —2              | —              | Coupling, Drive (See Figures 20—24)                    | 1    |      | CPL           |
| —3              | —              | Oil Separator (See Figure 3)                           | 1    |      |               |
| —4              | —              | Oil Filter Assembly (See Figure 4)                     | A/R  |      | F-1           |
| —5              | —              | Microprocessor Control Center (See Figures 25—28)      | 1    |      |               |
| —6              | —              | Multi-Valve Assembly, 4—14" (See Figures 11—13)        | 1    |      |               |
| —7              | —              | Valve, Discharge Stop/Check, 3—8" (See Figures 14 —17) | 1    |      |               |
| —8              | —              | Transducer Manifold Assembly (See Figure 19)           | 1    |      |               |
| —9              | —              | Gasket, Multivalve to Compressor (See Figure 2)        | 1    |      |               |
| —10             | —              | Oil Pump Piping (See Figures 7, 8 and 9)               | Ref. |      |               |
| —11             | 535D0293G01    | Guard, Coupling                                        | 1    |      |               |

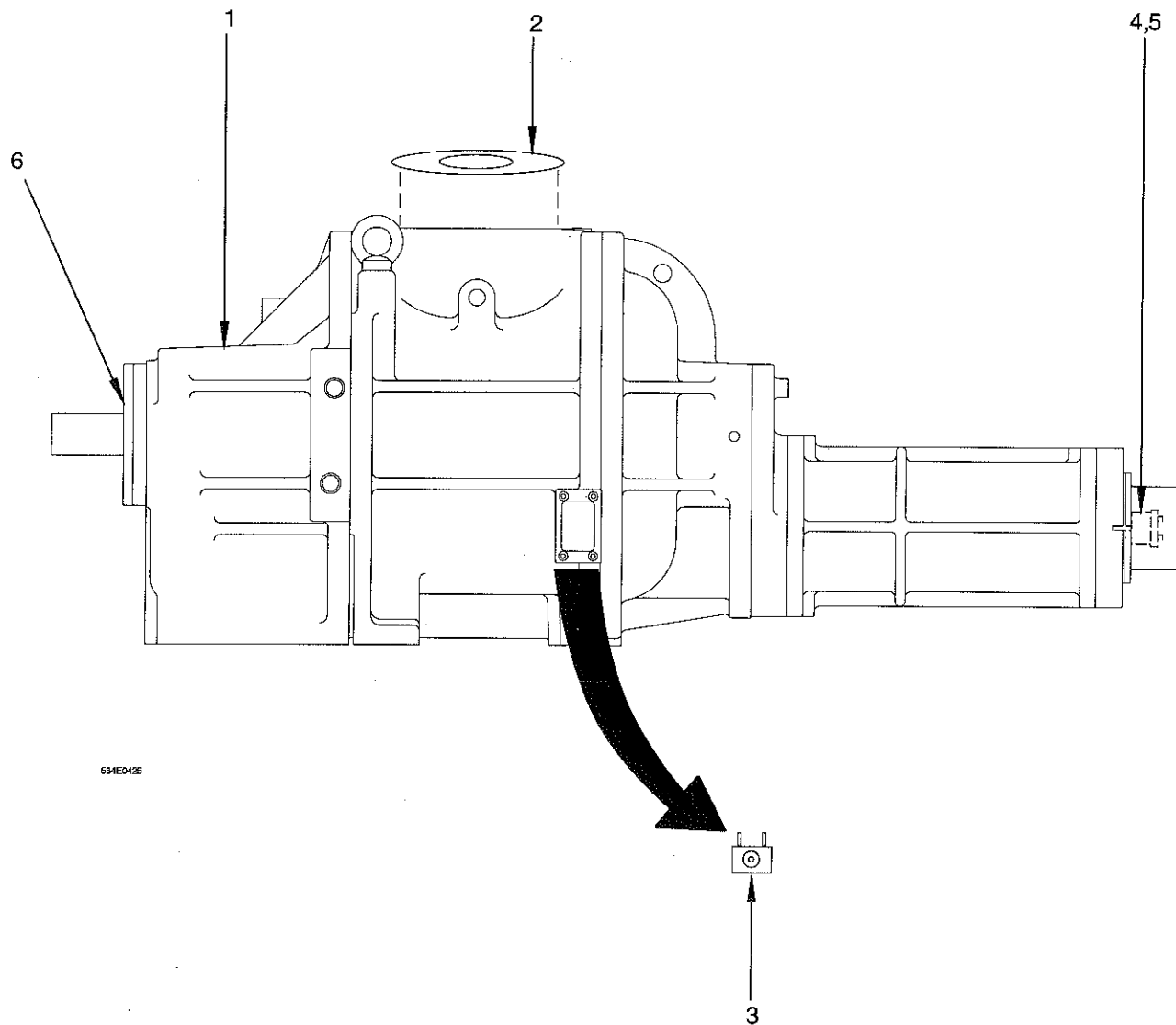
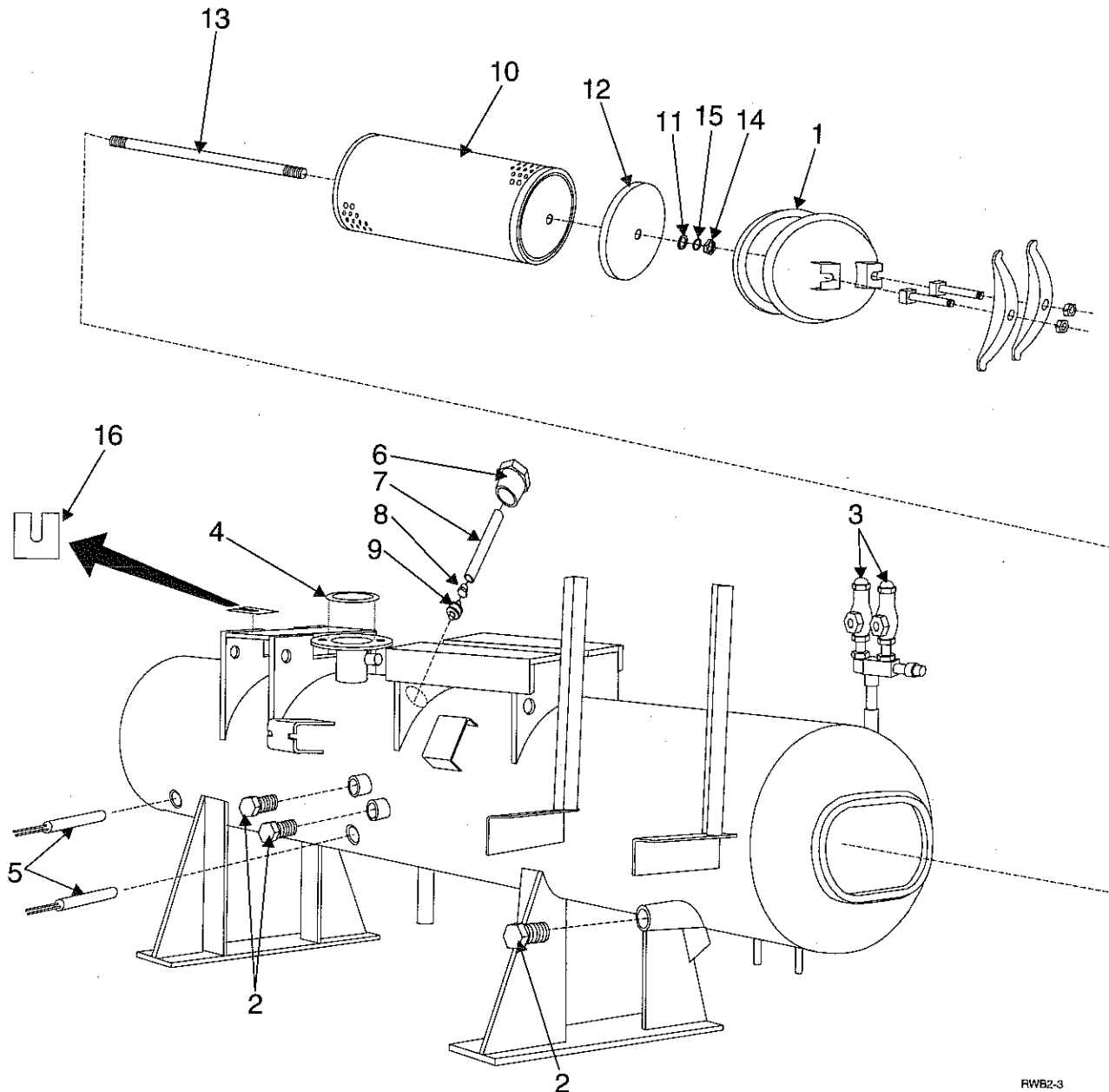


Figure 2. Screw Compressor, Typical.

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                    | QTY. | REV. | P & I REF. |
|--------------|-------------|----------------------------------------------------------------|------|------|------------|
| 2—           | —           | Screw Compressor                                               | Ref. |      | C-1        |
| —1           | 534E0168    | TDSH 163S & L, Screw Compressor, New                           | 1    | N    |            |
|              | 111Q0040772 | TDSH 163S, Screw Compressor, Rebuilt, 60                       | 1    |      |            |
|              | 111Q0040773 | TDSH 163L, Screw Compressor, Rebuilt, 76                       | 1    |      |            |
|              | 534E0169    | TDSH 193S & L, Screw Compressor, New                           | 1    | N    |            |
|              | 111Q0040774 | TDSH 193S, Screw Compressor, Rebuilt, 100                      | 1    |      |            |
|              | 111Q0040775 | TDSH 193L, Screw Compressor, Rebuilt, 134                      | 1    |      |            |
|              | 534E0170    | TDSH 233S, L & XL, Screw Compressor, New                       | 1    | Q    |            |
|              | 111Q0040776 | TDSH 233S, Screw Compressor, Rebuilt, 177                      | 1    |      |            |
|              | 111Q0040777 | TDSH 233L, Screw Compressor, Rebuilt, 222                      | 1    |      |            |
|              | 534D0575    | TDSH 283S & L, Screw Compressor, New                           | 1    | E    |            |
|              | 111Q0041400 | TDSH 283S, Screw Compressor, Rebuilt, 316                      | 1    |      |            |
|              | 111Q0041401 | TDSH 283L, Screw Compressor, Rebuilt, 399                      | 1    |      |            |
|              | 534E0604    | TDSH 283SX, Screw Compressor, New                              | 1    | —    |            |
|              | 534E0309    | TDSH 355S, L, XL, Booster, Screw Compressor, New               | 1    | Q    |            |
|              | 111Q0044009 | TDSH 355S, Screw Compressor, Rebuilt, 496                      | 1    |      |            |
|              | 111Q0044010 | TDSH 355L, Screw Compressor, Rebuilt, 676                      | 1    |      |            |
|              | 534E0645    | TDSB 355B, Screw Compressor, New                               | 1    | A    |            |
| —2           | 959A0062H01 | Gasket, Multivalve to Compressor, 150 PSI, 60 & 76             | 1    |      |            |
|              | 959A0062H21 | Gasket, Multivalve to Compressor, 300 PSI, 60 & 76             | 1    |      |            |
|              | 959A0062H02 | Gasket, Multivalve to Compressor, 150 PSI, 100                 | 1    |      |            |
|              | 959A0062H22 | Gasket, Multivalve to Compressor, 300 PSI, 100                 | 1    |      |            |
|              | 959A0062H03 | Gasket, Multivalve to Compressor, 150 PSI, 134 & 177           | 1    |      |            |
|              | 959A0062H23 | Gasket, Multivalve to Compressor, 300 PSI, 134 & 177           | 1    |      |            |
|              | 959A0062H04 | Gasket, Multivalve to Compressor, 150 PSI, 222                 | 1    |      |            |
|              | 959A0062H24 | Gasket, Multivalve to Compressor, 300 PSI, 222                 | 1    |      |            |
|              | 959A0062H04 | Gasket, 8"—6" Adapter Plate to Compressor, 150 PSI, 222        | 1    |      |            |
|              | 959A0062H24 | Gasket, 8"—6" Adapter Plate to Compressor, 300 PSI, 222        | 1    |      |            |
|              | 959A0062H03 | Gasket, 8"—6" Adapter Plate to Multivalve, 150 PSI, 222        | 1    |      |            |
|              | 959A0062H23 | Gasket, 8"—6" Adapter Plate to Multivalve, 300 PSI, 222        | 1    |      |            |
|              | 959A0062H05 | Gasket, Multivalve to Compressor, 150 PSI, 270—399             | 1    |      |            |
|              | 959A0062H25 | Gasket, Multivalve to Compressor, 300 PSI, 270—399             | 1    |      |            |
|              | 959A0062H05 | Gasket, 10"—8" Adapter Plate to Compressor, 150 PSI, 316 & 480 | 1    |      |            |
|              | 959A0062H25 | Gasket, 10"—8" Adapter Plate to Compressor, 300 PSI, 316 & 480 | 1    |      |            |
|              | 959A0062H04 | Gasket, 10"—8" Adapter Plate to Multivalve, 150 PSI, 316 & 480 | 1    |      |            |
|              | 959A0062H24 | Gasket, 10"—8" Adapter Plate to Multivalve, 300 PSI, 316 & 480 | 1    |      |            |
|              | 959A0054H34 | Gasket, Multivalve to Compressor, 300 PSI, 496                 | 1    |      |            |
|              | 959A0054H36 | Gasket, Multivalve to Compressor, 300 PSI, 676 & 856           | 1    |      |            |
| —3           | 111Q0041148 | Kit, Slide Stop Potentiometer Replacement                      | 1    |      |            |
| —4           | 534D0523G02 | Kit, Slide Valve Potentiometer Replacement *                   | 1    |      |            |
|              | 534B0501H01 | Potentiometer only                                             | 1    |      |            |
| —5           | 111Q0451313 | Coupling, Flexible                                             | 1    |      |            |
| —6           | 534M0163G01 | Kit, Shaft Seal, 163                                           | 1    |      |            |
|              | 534M0163G02 | Kit, Shaft Seal, 193                                           | 1    |      |            |
|              | 534M0163G03 | Kit, Shaft Seal, 233                                           | 1    |      |            |
|              | 534M0163G04 | Kit, Shaft Seal, 283                                           | 1    |      |            |
|              | 534M0163G05 | Kit, Shaft Seal, 355                                           | 1    |      |            |

\* When replacing Maurey Potentiometer on units shipped prior to 7/90.



RWB2-3

Figure 3. Oil Separator, Typical.

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                     | QTY. | REV. | P & I REF. |
|--------------|-------------|-------------------------------------------------|------|------|------------|
| 3—           | 548E0114G01 | Oil Separator Assembly, 60 & 76                 | Ref. | R    |            |
|              | 548E0348G01 | Oil Separator Assembly, 100 & 134               | Ref. | A    |            |
|              | 548E0115G01 | Oil Separator Assembly, 100 & 134               | Ref. | C    |            |
|              | 548E0116G01 | Oil Separator Assembly, 177 & 222               | Ref. | Z    |            |
|              | 548E0151G01 | Oil Separator Assembly, 270                     | Ref. | U    |            |
|              | 548E0117G01 | Oil Separator, 316 & 399                        | Ref. | Y    |            |
|              | 548E0350G01 | Oil Separator, 480                              | Ref. | B    |            |
|              | 548E0118G01 | Oil Separator, 496                              | Ref. | L    |            |
|              | 548E0119G01 | Oil Separator, 676                              | Ref. | L    |            |
|              | 548E0337G01 | Oil Separator, 856                              | Ref. | A    |            |
| —1           | 531A0105H03 | Gasket, Manway, 60 & 76                         | 1    |      |            |
|              | 531A0105H04 | Gasket, Manway, 100—856                         | 1    |      |            |
| —2           | 947A0003H01 | Glass, Sight                                    | 3    |      |            |
| —3           | 580C0358G09 | Assembly, Dual Safety Valve, 60—177 (current)   | 1    |      | PSV-1      |
|              | 955A0012H01 | Manifold, 1/2"                                  | 1    |      |            |
|              | 952A0019H10 | Valve, Safety, 1/2", 300 PSIG*                  | 2    |      |            |
|              | 580C0357G09 | Assembly, Dual Safety Valve, 222—270 (current)  | 1    |      | PSV-1      |
|              | 955A0012H02 | Manifold, 3/4"                                  | 1    |      |            |
|              | 952A0020H10 | Valve, Safety, 3/4", 300 PSIG*                  | 2    |      |            |
|              | 580C0361G09 | Assembly, Dual Safety Valve, 316—856 (current)  | 1    |      | PSV-1      |
|              | 955A0023H01 | Manifold, 1"                                    | 1    |      |            |
|              | 952A0021H09 | Valve, Safety, 1", 300 PSIG*                    | 2    |      |            |
|              | 580C0362G09 | Assembly, Dual Safety Valve, 399—856 (current)  | 1    |      | PSV-1      |
|              | 955A0024H01 | Manifold, 1-1/2"                                | 1    |      |            |
|              | 952A0022H09 | Valve, Safety, 1-1/2", 300 PSIG*                | 2    |      |            |
| —4           | 959A0054H28 | Gasket, Compressor to Separator, 60 & 76        | 1    |      |            |
|              | 959A0054H30 | Gasket, Compressor to Separator, 100 & 134      | 1    |      |            |
|              | 959A0054H32 | Gasket, Compressor to Separator, 177—270        | 1    |      |            |
|              | 959A0054H33 | Gasket, Compressor to Separator, 316 & 480      | 1    |      |            |
|              | 959A0054H34 | Gasket, Compressor to Separator, 496—856        | 1    |      |            |
| —5           | 913A0047H01 | Heater, Oil, 500 Watts, 120 Volts               | 2-3  |      | H-1,2      |
|              | 913A0047H02 | Heater, Oil, 1000 Watts, 120 Volts (Option)     | 2-3  |      | H-1,2      |
|              | 913A0047H03 | Heater, Oil, 500 Watts, 240 Volts (Option)      | 2-3  |      | H-1,2      |
|              | 913A0047H04 | Heater, Oil, 1000 Volts, 240 Volts (Option)     | 2-3  |      | H-1,2      |
|              | 111Q0451137 | Box, Round, Conduit (not shown)                 | 2-3  |      |            |
|              | 720A0013G01 | Liquid Level Float Switch Assembly, 60 & 76**   | Ref. | —    |            |
|              | 720A0013G02 | Liquid Level Float Switch Assembly, 100 & 134** | Ref. | —    |            |
|              | 720A0013G03 | Liquid Level Float Switch Assembly, 177 & 222** | Ref. | —    |            |
|              | 720A0013G04 | Liquid Level Float Switch Assembly, 270—480**   | Ref. | —    |            |
|              | 720A0013G05 | Liquid Level Float Switch Assembly, 496**       | Ref. | —    |            |
|              | 720A0013G06 | Liquid Level Float Switch Assembly, 676 & 856** | Ref. | —    |            |
| —6           | 535A0015H01 | Plug, Pipe, 2", Modified**                      | 1    |      |            |

\*When replacing Frick ST, LST, or AF Safety Valves, see Service Information Letter NS-30-95, or contact factory for correct size.

\*\*Used with Prelube and Full-Cycling Oil Pump.

RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST



| FIG. & INDEX                                                                                                                        | ITEM NUMBER | DESCRIPTION                                       | QTY.  | REV. | P & I REF. |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|-------|------|------------|
| 3—                                                                                                                                  | —           | Oil Separator Assembly, Continued                 |       |      |            |
| —7                                                                                                                                  | 535A0181H01 | Rod, Extension, 17.44", 60 & 76**                 | 1     |      |            |
|                                                                                                                                     | 535A0181H02 | Rod, Extension, 21.44", 100 & 134**               | 1     |      |            |
|                                                                                                                                     | 535A0181H03 | Rod, Extension, 27.44", 177 & 222**               | 1     |      |            |
|                                                                                                                                     | 535A0181H04 | Rod, Extension, 33.44", 316 & 480**               | 1     |      |            |
|                                                                                                                                     | 535A0181H05 | Rod, Extension, 39.44", 496**                     | 1     |      |            |
|                                                                                                                                     | 535A0181H08 | Rod, Extension, 45.44", 676 & 856**               | 1     |      |            |
| —8                                                                                                                                  | 944A0010H01 | Bushing, 1/4" MPT x 1/8" FPT**                    | 1     |      |            |
| —9                                                                                                                                  | 536A1419H01 | Switch, Liquid Level***                           | 1     |      | LS-1       |
|                                                                                                                                     | 535M0144G01 | Filter Assy., Coalescing, Standard, 60—480 & 856  | Ref.  |      |            |
|                                                                                                                                     | 535M0145G01 | Filter Assy., Coalescing, Convolute, 60—480 & 856 | Ref.  |      |            |
|                                                                                                                                     | 535B0019G05 | Filter Assy., Coalescing, Convolute, 496          | Ref.  | C    |            |
|                                                                                                                                     | 535B0019G06 | Filter Assy., Coalescing, Convolute, 676          | Ref.  | C    |            |
| —10                                                                                                                                 | 531B0019H01 | Filter, Coalescing, Standard*, 60 & 76            | 1     |      |            |
|                                                                                                                                     | 531B0019H01 | Filter, Coalescing, Standard*, 100 & 134          | 2     |      |            |
|                                                                                                                                     | 531B0019H01 | Filter, Coalescing, Standard*, 177 & 222          | 3     |      |            |
|                                                                                                                                     | 531B0019H01 | Filter, Coalescing, Standard*, 270—480            | 4     |      |            |
|                                                                                                                                     | 531B0065H01 | Filter, Coalescing, Convolute, 496                | 5     |      |            |
|                                                                                                                                     | 531B0065H01 | Filter, Coalescing, Convolute, 676                | 9     |      |            |
|                                                                                                                                     | 531B0065H01 | Filter, Coalescing, Convolute, 856                | 11    |      |            |
| —11                                                                                                                                 | 540D0217H06 | Washer, Seal                                      | 1 per |      |            |
| —12                                                                                                                                 | 540D0217G02 | Retainer, Filter                                  | 1 per |      |            |
| —13                                                                                                                                 | 540D0217G03 | Stud 1/2-13NC x 37"                               | 1 per |      |            |
| —14                                                                                                                                 | 902A0021H01 | Nut, Hex 1/2-13NC                                 | 1 per |      |            |
| —15                                                                                                                                 | 111Q0940051 | Washer 1/2"                                       | 1 per |      |            |
| —16                                                                                                                                 | 531A0048G35 | Shim Kit, Compressor, 60 & 76                     | 2     |      |            |
|                                                                                                                                     | 531A0048G40 | Shim Kit, Compressor, 60 & 76                     | 1     |      |            |
|                                                                                                                                     | 531A0048G36 | Shim Kit, Compressor, 100 & 134                   | 2     |      |            |
|                                                                                                                                     | 531A0048G41 | Shim Kit, Compressor, 100 & 134                   | 1     |      |            |
|                                                                                                                                     | 531A0048G37 | Shim Kit, Compressor, 177—270                     | 4     |      |            |
|                                                                                                                                     | 531A0048G38 | Shim Kit, Compressor, 316 & 480                   | 4     |      |            |
|                                                                                                                                     | 531A0048G39 | Shim Kit, Compressor, 496—856                     | 4     |      |            |
| * Optional Convolute Filter - 531B0065H01.                                                                                          |             |                                                   |       |      |            |
| ** Used with Prelube and Full-Cycling Oil Pump, or no pump.                                                                         |             |                                                   |       |      |            |
| *** Used with Prelube and Full-Cycling Oil Pump, or no pump.<br>(Replaces 913A0086H01, 913A0086H02, 913A0063H03 and 913A0055H01/02) |             |                                                   |       |      |            |



**RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
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**S70-200 SPL  
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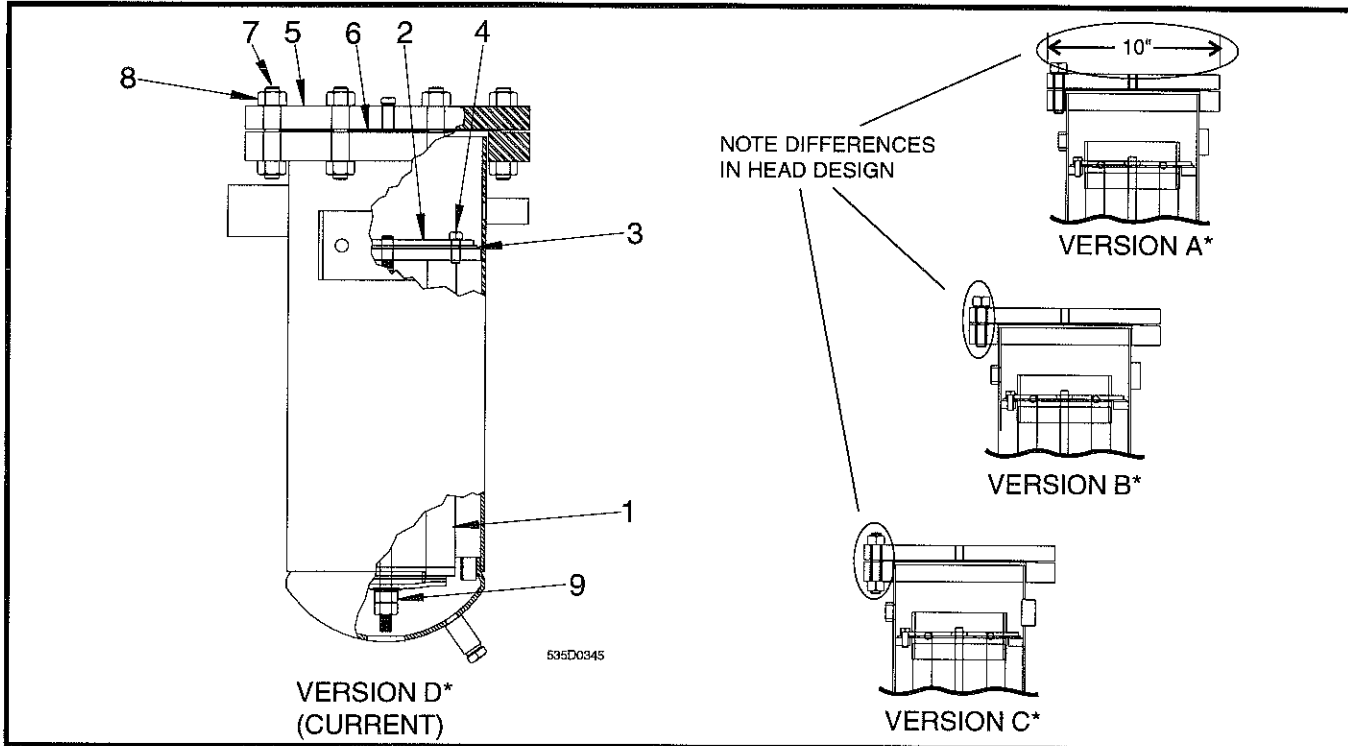
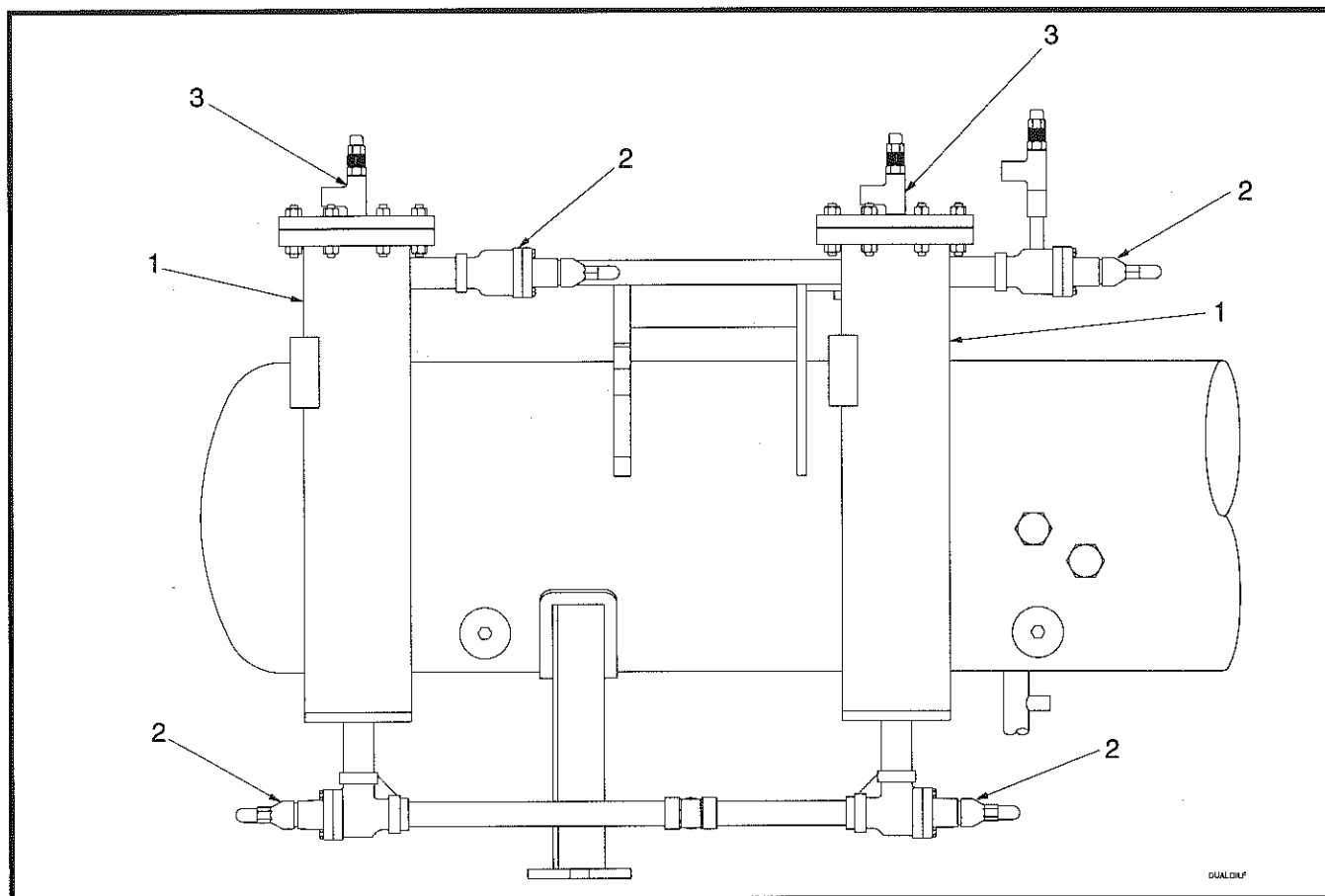


Figure 4. Oil Filter, Standard, Typical (Single Element Shown).

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                   | QTY. | REV. | P & I REF. |
|--------------|-------------|---------------------------------------------------------------|------|------|------------|
| 4—           | 535D0345G01 | Oil Filter Assembly, 1 Element (Version D)                    | Ref. | A    | F-1,2      |
|              | 535D0335G01 | Oil Filter Assembly, 2 Element, 1-1/2" (Version D)            | Ref. | A    | F-1,2      |
|              | 535D0518G01 | Oil Filter Assembly, 2 Element, 1-1/2" (Version D w/2 drains) | Ref. | A    | F-1,2      |
|              | 535D0346G01 | Oil Filter Assembly, 2 Element, 2" (Version D)                | Ref. | A    | F-1,2      |
|              | 535D0347G01 | Oil Filter Assembly, 3 Element, 2-1/2" (Version D)            | Ref. | A    | F-1,2      |
|              | 535D0524G01 | Oil Filter Assembly, 3 Element, 3" (Version D)                | Ref. | —    | F-1,2      |
| —1           | 531A0028H01 | Element, Oil Filter, 15 Micron, 60 & 76                       | 1    |      |            |
|              | 531A0028H01 | Element, Oil Filter, 15 Micron, 100—222                       | 2    |      |            |
|              | 531A0028H01 | Element, Oil Filter, 15 Micron, 316—856                       | 3    |      |            |
| —2           | 535A0144H01 | Plate, Clamping                                               | 1    |      |            |
| —3           | 959A0053H01 | Gasket, Clamping Plate (Version B, C & D)                     | 1    |      |            |
| —4           | 901A0043D05 | Capscrew, Hex Head, 3/8 NC x 1"                               | 6    |      |            |
| —5           | 535A0351H01 | Cover, End                                                    | 1    |      |            |
| —6           | 531A0205H01 | Gasket, End Cover (Version A)                                 | 1    |      |            |
|              | 959A0063H01 | Gasket, End Cover (Version B)                                 | 1    |      |            |
|              | 959A0082H01 | Gasket, End Cover (Version C & D)                             | 1    |      |            |
| —7           | 901A0098H11 | Stud, 5/8 NC x 4"                                             | 8    |      |            |
| —8           | 902A0021H03 | Nut, High Tensile, 5/8" NC                                    | 16   |      |            |
| —9           | 535M0049G01 | Kit, Oil Filter Hardware, 1 Element                           | 1    |      |            |
|              | 535M0049G02 | Kit, Oil Filter Hardware, 2 Elements                          | 1    |      |            |
|              | 535M0049G03 | Kit, Oil Filter Hardware, 3 Elements                          | 1    |      |            |
|              |             | Consisting of standard hardware plus:                         |      |      |            |
|              | 900A0008H01 | Yoke                                                          | 1    |      |            |
|              | 333Q0001236 | Gasket                                                        | 1    |      |            |
|              | 900A0007H01 | Center Seal, 2 Elements                                       | 1    |      |            |
|              | 900A0007H01 | Center Seal, 3 Elements                                       | 2    |      |            |

\* VERSION A: 10" diameter head, threaded flange, flat bottom.  
 \* VERSION B: threaded flange w/hex head capscrews, flat or rounded bottom.  
 \* VERSION C: drilled flange w/studs and nuts, flat bottom.  
 \* VERSION D: drilled flange w/studs and nuts, rounded bottom.  
 NOTE: Item numbers 1 & 9, apply to all four versions. Items 2—8 are for Version D.


**Figure 5. Dual Oil Filter, Typical.**

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                     | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------------------------------|------|------|------------|
| 5—           | 720D0057G01 | Dual Oil Filter Assy., 60 & 76                                  | Ref. | E    |            |
|              | 720D0234G01 | Dual Oil Filter Assy., 100 & 134                                | Ref. | B    |            |
|              | 720D0095G01 | Dual Oil Filter Assy., 177 & 222                                | Ref. | E    |            |
|              | 720D0083G01 | Dual Oil Filter Assy., 270                                      | Ref. | G    |            |
|              | 720D0116G01 | Dual Oil Filter Assy., 316 & 399                                | Ref. | E    |            |
|              | 720D0247G01 | Dual Oil Filter Assy., 480                                      | Ref. | A    |            |
|              | 720D0104G01 | Dual Oil Filter Assy., 496                                      | Ref. | D    |            |
|              | 720D0117G01 | Dual Oil Filter Assy., 676                                      | Ref. | D    |            |
|              | 720D0216G01 | Dual Oil Filter Assy., 856                                      | Ref. | B    |            |
| —1           | 535D0345G01 | Oil Filter Assembly, 1 Element, (See Figure 4)                  | Ref. | A    | F-1,2      |
|              | 535D0335G01 | Oil Filter Assembly, 2 Element, 1-1/2" Connections (See Fig. 4) | Ref. | A    | F-1,2      |
|              | 535D0518G01 | Oil Filter Assembly, 2 Element, 1-1/2" Connections (See Fig. 4) | Ref. | A    | F-1,2      |
|              | 535D0346G01 | Oil Filter Assembly, 2 Element, 2" Connections (See Fig. 4)     | Ref. | A    | F-1,2      |
|              | 535D0347G01 | Oil Filter Assembly, 3 Element, 2-1/2" (See Figure 4)           | Ref. | A    | F-1,2      |
|              | 535D0524G01 | Oil Filter Assembly, 3 Element, 3" (See Figure 4)               | Ref. | —    | F-1,2      |
| —2           | 580D0167G04 | Valve, Angle, Socket Weld, Seal Cap, 1-1/2" (Frick)             | 4    |      |            |
|              | 950A0125H02 | Valve, Angle, Socket Weld, Seal Cap, 1-1/2" (Herl)              | 4    |      |            |
|              | 580D0164G04 | Valve, Angle, Socket Weld, Seal Cap, 2" (Frick)                 | 4    |      |            |
|              | 950A0127H02 | Valve, Angle, Socket Weld, Seal Cap, 2" (Herl)                  | 4    |      |            |
|              | 581D0064G04 | Valve, Angle, Weld-In-Line, Seal Cap, 2-1/2" (Frick)            | 4    |      |            |
|              | 950A0135G02 | Valve, Angle, Weld-In-Line, Seal Cap, 2-1/2" (Gram)             | 4    |      |            |
|              | 950A0137G02 | Valve, Angle, Weld-In-Line, Seal Cap, 3" (Gram)                 | 4    |      |            |
| —3           | 957A0003H01 | Valve, Angle, Seal Cap, 1/4" NPT                                | 2    |      |            |

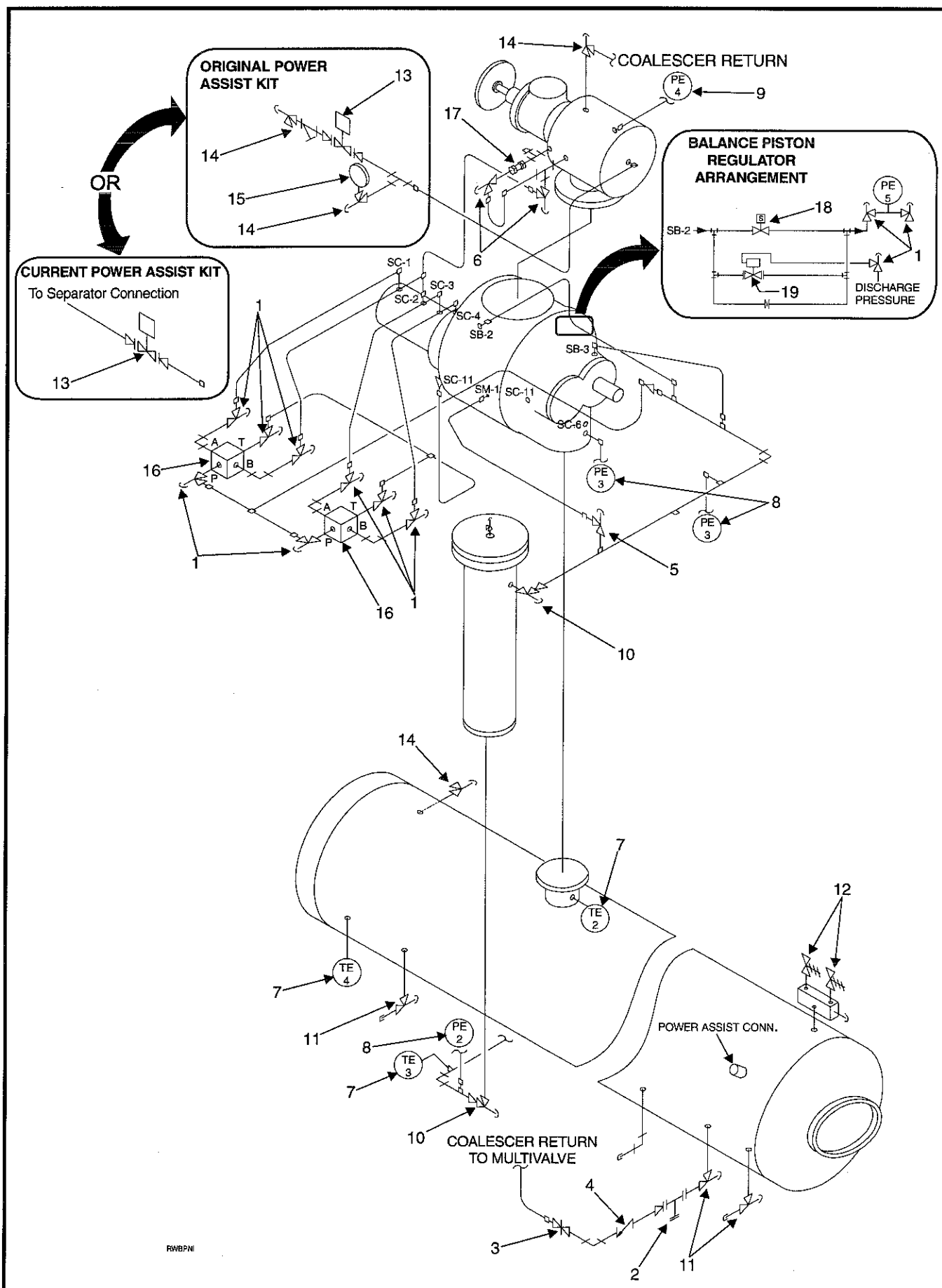


**Figure 6. Piping and Instrumentation, Typical.**

| FIG. & INDEX                                                                                                                                                                                                                                                                                                                                                                                           | ITEM NUMBER  | DESCRIPTION                                                     | QTY. | REV. | P & I REF. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------|------|------|------------|
| 6—                                                                                                                                                                                                                                                                                                                                                                                                     | 720E0001G40  | Package Parts Assembly, R-717, Models 60 & 76                   | Ref. | V    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0002G40  | Package Parts Assembly, R-22, Models 60 & 76                    | Ref. | V    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0003G40  | Package Parts Assembly, R-717, Models 100 & 134                 | Ref. | ?    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0004G40  | Package Parts Assembly, R-22, Models 100 & 134                  | Ref. | ?    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0005G40  | Package Parts Assembly, R-717, Models 177 & 222                 | Ref. | Y    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0006G40  | Package Parts Assembly, R-22, Models 177 & 222                  | Ref. | Y    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0043G40  | Package Parts Assembly, R-717, Model 270                        | Ref. | M    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0007G40  | Package Parts Assembly, R-717, Models 316 & 399                 | Ref. | D    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0008G40  | Package Parts Assembly, R-22, Models 316 & 399                  | Ref. | D    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0066G40  | Package Parts Assembly, R-717, Model 480                        | Ref. | —    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0066G50  | Package Parts Assembly, R-717, Model 480                        | Ref. | —    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0067G40  | Package Parts Assembly, R-22, Model 480                         | Ref. | —    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0067G50  | Package Parts Assembly, R-22, Model 480                         | Ref. | —    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0049G40  | Package Parts Assembly, R-717, Model 496                        | Ref. | K    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0050G40  | Package Parts Assembly, R-22, Model 496                         | Ref. | K    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0051G40  | Package Parts Assembly, R-717, Model 676                        | Ref. | J    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 720E0052G40  | Package Parts Assembly, R-22, Model 676                         | Ref. | J    |            |
| —1                                                                                                                                                                                                                                                                                                                                                                                                     | 957A0003H01  | Valve, Angle, Seal Cap, 1/4" NPT                                | 11   |      |            |
| —2                                                                                                                                                                                                                                                                                                                                                                                                     | 950A0019H01  | Strainer, 1/2" FPT                                              | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 950A0019H02  | Gasket, Flange                                                  | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 950A0019H03  | Gasket, Screen                                                  | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 950A0019H04  | Screen w/Gasket                                                 | 1    |      |            |
| —3                                                                                                                                                                                                                                                                                                                                                                                                     | 955A0008H01  | Valve, Needle, 1/4" NPT                                         | 1    |      | NV         |
| —4                                                                                                                                                                                                                                                                                                                                                                                                     | 956A0018H01  | Valve, Check, 1/4" NPT                                          | 1    |      |            |
| —5                                                                                                                                                                                                                                                                                                                                                                                                     | 954A0032H01  | Valve, Angle, Hand Expansion, Seal Cap, 1/2" S.W.               | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 954A0032H02  | Valve, Angle, Hand Expansion, Seal Cap, 3/4" S.W.               | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 954A0033H01  | Valve, Angle, Hand Expansion, Seal Cap, 1" S.W.                 | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 954A0033H02  | Valve, Angle, Hand Expansion, Seal Cap, 1-1/4" S.W.             | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 954A0047H01  | Valve, Angle, Hand Expansion, Seal Cap, 1-1/2" S.W.             | 1    |      |            |
| —6                                                                                                                                                                                                                                                                                                                                                                                                     | 957A0003H02  | Valve, Angle, Seal Cap, 3/8" NPT                                | 2    |      |            |
| —7                                                                                                                                                                                                                                                                                                                                                                                                     | 111Q0280818* | Sensor, Temperature, Original, 3/16 x 4"                        | 4    |      | TE1-4      |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 980A0017H01  | Washer, Neoprene, for 111Q0280818                               | 4    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 640A0035H01* | Sensor, Temperature, Current, 5/16 x 1"                         | 4    |      | TE1-4      |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 640A0038H10  | Tube, Retainer, Current Temperature Sensor (cut to length)      | 4    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 640A0033H01  | Spring, Retainer, Tube (Stonco, 1-3/8" to $\varnothing$ of eye) | 4    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 640A0051H01  | Spring, Retainer, Tube (RAB, 7/8" to $\varnothing$ of eye)      | 4    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 111Q0280982  | Sensor, Remote Temperature Control Option                       | 1    |      | TE-5       |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 990A0014H01  | Well, Temperature Sensor, Original, 3/4" NPT                    | 4    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 990A0062H01  | Well, Temperature Sensor, Current, 3/4" NPT                     | 4    |      |            |
| <p>* The current temperature sensor 640A0035H01 has been used since 3/97 (Note: 5th digit of s/n is year, R=1997). There is no serial number break. Externally the visual difference is; original sensors had an ell pull box while current sensors use a round wiring box. However, this is not always consistent. Note the dimensional differences of the two sensors. Parts do not interchange.</p> |              |                                                                 |      |      |            |
| —8                                                                                                                                                                                                                                                                                                                                                                                                     | 111Q0280854  | Transducer, Pressure, 0-300 PSIA                                | 3    |      | PE1,2,3,5  |
|                                                                                                                                                                                                                                                                                                                                                                                                        | 111Q0280887  | Transducer, Pressure, Optional, 0-500 PSIA                      | 3    |      | PE1,2,3,5  |

RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST**Frick**

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------------------------|------|------|---------------|
| 6—              | —              | Piping and Instrumentation, Continued                    | Ref. |      |               |
| —9              | 111Q0280853    | Transducer, Pressure, 0-100 PSIA                         | 1    |      | PE-4          |
|                 | 111Q0280854    | Transducer, Pressure, Optional, 0-300 PSIA               | 1    |      | PE-4          |
|                 | 333Q0001345    | Transducer, Pressure, 0-200 PSIA                         | 1    |      | PE-4          |
| —10             | 580D0167G04    | Valve, Angle, Seal Cap, 1-1/2" S.W. (Frick)              | 2    |      |               |
|                 | 950A0125H02    | Valve, Angle, Seal Cap, 1-1/2" S.W. (Herl)               | 2    |      |               |
|                 | 580D0164G04    | Valve, Angle, Seal Cap, 2" S.W. (Frick)                  | 2    |      |               |
|                 | 950A0127H02    | Valve, Angle, Seal Cap, 2" S.W. (Herl)                   | 2    |      |               |
|                 | 581D0064G04    | Valve, Angle, Seal Cap, 2-1/2" W.I.L. (Frick)            | 2    |      |               |
|                 | 950A0135G02    | Valve, Angle, Seal Cap, 2-1/2" W.I.L. (Gram)             | 2    |      |               |
| —11             | 580D0165G11    | Valve, Angle, Seal Cap, 1/2" S.W. (Frick)                | 3    |      |               |
|                 | 950A0117H02    | Valve, Angle, Seal Cap, 1/2" S.W. (Herl)                 | 3    |      |               |
| —12             | —              | Assembly, Dual Safety Valve (See Figure 3)               | 1    |      |               |
|                 | 580M0096       | Parts, Power Assist, Multivalve, (original)              | Ref. |      |               |
|                 | 535M0146       | Parts, Power Assist, Multivalve, (current)               | Ref. |      |               |
| —13             | 951A0060H04    | Valve, Solenoid, less coil (Parker Hannifin)(original)   | 1    |      | SV-9          |
|                 | 951A0060H05    | Coil, Solenoid, 110/120V                                 | 1    |      |               |
|                 | 951A0060H06    | Coil, Solenoid, 220/240V                                 | 1    |      |               |
|                 | 951A0006H14    | Valve, Solenoid, with strainer, less coil (R/S)(current) | 1    |      | SV-9          |
|                 | 333Q0001099    | Housing, Coil                                            | 1    |      |               |
|                 | 951A0009H01    | Coil, Solenoid, 115-60                                   | 1    |      |               |
|                 | 951A0009H03    | Coil, Solenoid, 220-60                                   | 1    |      |               |
|                 | 950A0001H02    | Strainer (R/S)                                           | 1    |      |               |
|                 | 951A0006H07    | Valve, Solenoid, less strainer, less coil (R/S)(current) | 1    |      | SV-9          |
|                 | 333Q0001099    | Housing, Coil                                            | 1    |      |               |
|                 | 951A0009H01    | Coil, Solenoid, 115-60                                   | 1    |      |               |
|                 | 951A0009H03    | Coil, Solenoid, 220-60                                   | 1    |      |               |
|                 | 951A0009H05    | Coil, Solenoid, 230-50                                   | 1    |      |               |
|                 | 951A0009H07    | Coil, Solenoid, 115-50                                   | 1    |      |               |
| —14             | 957A0003H01    | Valve, Angle, Seal Cap, 1/4"                             | 4    |      |               |
| —15             | 990A0003H02    | Gauge, Pressure, 30"Vac.—150 PSIG                        | 1    |      |               |
|                 | 720M0016G01    | Solenoid Control Valve                                   | Ref. |      |               |
| —16             | 951A0056H39    | Valve, Solenoid, 120-60, 110-50, Vickers *               | 2    |      | SV1-4         |
|                 | 951A0056H41    | Valve, Solenoid, 240-60, 220-50, Vickers *               | 2    |      |               |
|                 | 951A0056H43    | Valve, Solenoid, 240-50, Vickers *                       | 2    |      |               |
|                 | 951A0056H34    | Seal Kit, Solenoid Valve, Vickers                        | 2    |      |               |
|                 | 951A0056H40    | Coil, 120-60, 110-50                                     | 4    |      |               |
|                 | 951A0056H42    | Coil, 240-60, 220-50                                     | 4    |      |               |
|                 | 951A0056H44    | Coil, 240-50                                             | 4    |      |               |
|                 | 333Q0000517    | Kit, Capscrew, Socket Head, 10/24 x 1-1/4", RXF 12—19    | 2    |      |               |
|                 | 111Q0740878    | Capscrew, Socket Head, M5 x 30mm, RXF 24—50              | 8    |      |               |
|                 | 535A0292H05    | Subplate, Vickers Control Valve                          | 2    |      |               |

\* Frick recommends that Continental Valves be replaced with Vickers Valves when capacity control valve components are required.

Order 580M0128R01 Vickers Valve Retrofit Kit, which includes the valve (120VAC) and attaching hardware.

For other than standard 120VAC, consult factory. Note that coils are not interchangeable between Vickers and Continental.

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                   | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|-----------------------------------------------|------|------|---------------|
| —17             | 956A0031H07    | Valve, Check, 3/8"                            | 1    |      |               |
|                 | 956A0031H08    | Valve, Check, 1/2"                            | 1    |      |               |
|                 | 535M0093G01    | Balance Piston Regulator Arrangement, 496—856 | Ref. |      |               |
| —18             | 951A0007H07    | Valve, Solenoid, Less Coil                    | 1    |      | SV-8          |
|                 | 951A0009H01    | Coil, Soenoid, 110/120V                       | 1    |      |               |
| —19             | 954A0014H01    | Regulator, Differential Pressure              | 1    |      |               |

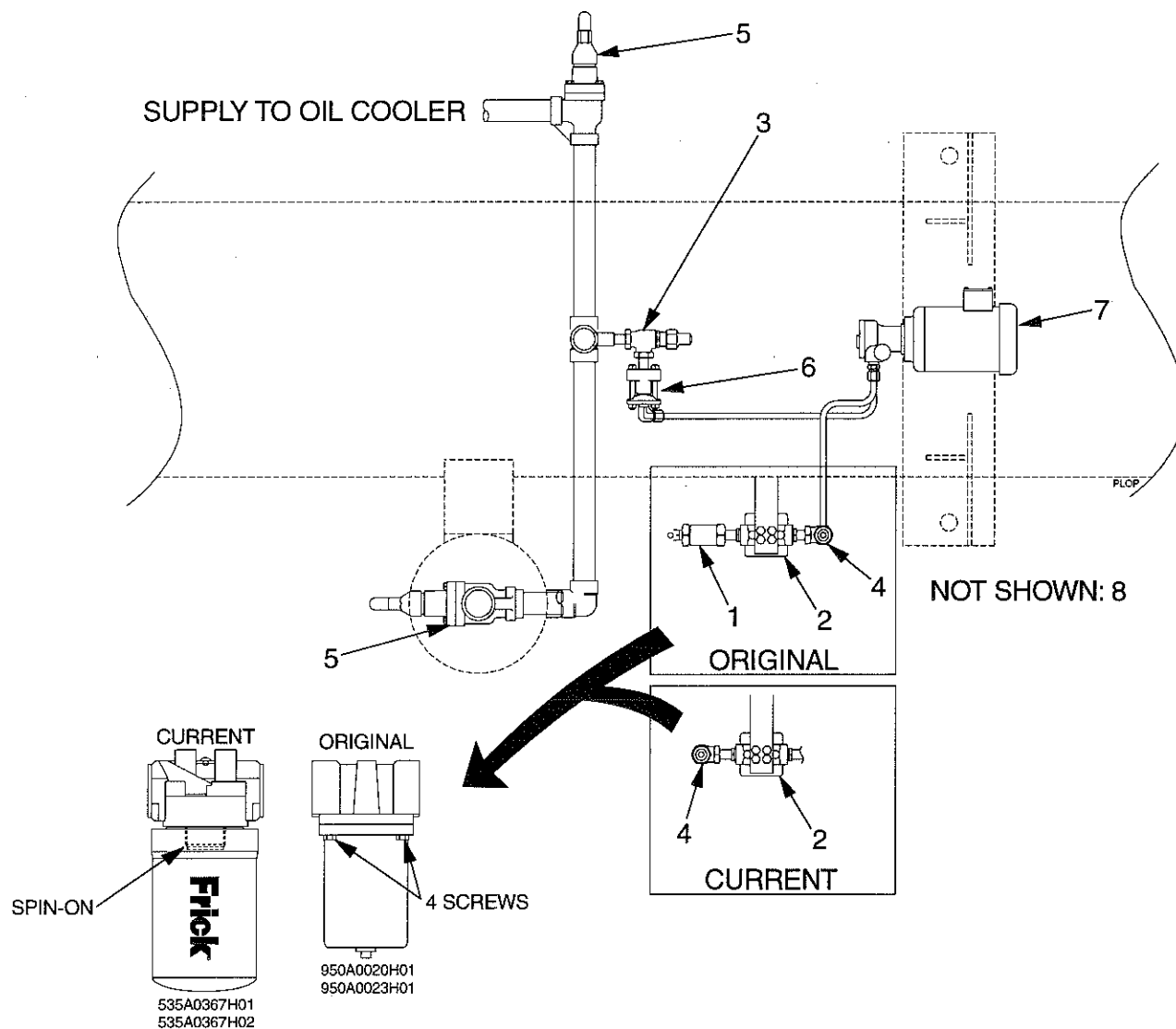


Figure 7. Prelube Oil Pump Piping, Typical.

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I REF. |
|--------------|-------------|--------------------------------------------------------|------|------|------------|
| 7—           | 720M0071    | Prelube Oil Pump Piping, 60 & 76                       | Ref. |      |            |
|              | 720M0152    | Prelube Oil Pump Piping, 100 & 134                     | Ref. |      |            |
|              | 720M0053    | Prelube Oil Pump Piping, 177 & 222                     | Ref. |      |            |
|              | 720M0051    | Prelube Oil Pump Piping, 270                           | Ref. |      |            |
|              | 720M0061    | Prelube Oil Pump Piping, 316, 399, 480                 | Ref. |      |            |
|              | 720M0022    | Prelube Oil Pump Piping, 270, 316, 399, 480            | Ref. |      |            |
|              | 720M0080    | Prelube Oil Pump Piping, 496                           | Ref. |      |            |
|              | 720M0089    | Prelube Oil Pump Piping, 676                           | Ref. |      |            |
|              | 535M0101    | Prelube Oil Pump and Motor, 60 & 76                    | Ref. |      |            |
|              | 720M0003    | Prelube Oil Pump and Motor, 100, 134, 177 & 222        | Ref. |      |            |
|              | 720M0022    | Prelube Oil Pump and Motor, 270, 316, 399 & 480        | Ref. |      |            |
|              | 720M0079    | Prelube Oil Pump and Motor, 496 & 676                  | Ref. |      |            |
|              | 720D0046    | Prelube Oil Pump Fittings, 60 & 76                     | Ref. | G    |            |
|              | 720D0227    | Prelube Oil Pump Fittings, 100 & 134                   | Ref. | B    |            |
|              | 720D0084    | Prelube Oil Pump Fittings, 177 & 222                   | Ref. | H    |            |
|              | 720D0072    | Prelube Oil Pump Fittings, 270                         | Ref. | H    |            |
|              | 720D0105    | Prelube Oil Pump Fittings, 316 & 399                   | Ref. | E    |            |
|              | 720D0236    | Prelube Oil Pump Fittings, 480                         | Ref. | A    |            |
|              | 720D0118    | Prelube Oil Pump Fittings, 496                         | Ref. | D    |            |
|              | 720D0125    | Prelube Oil Pump Fittings, 676                         | Ref. | D    |            |
| —1           | 956A0014H03 | Valve, Check, 1/2" FPT, 60 — 222                       | 1    |      |            |
|              | 956A0012G04 | Valve, Check, 1-1/4" FPT, 270—399                      | 1    |      |            |
| —2           | 950A0020H01 | Filter, In-Line, 60 —222 (Original)                    | 1    |      | F-3        |
|              | 980A0012B66 | O-ring, In-Line Filter                                 | 1    |      |            |
|              | 950A0020H02 | Cartridge, In-Line Filter (Remove 4 screws to replace) | 1    |      |            |
|              | 535A0367H02 | Filter, In-line, 60—222 (Current)                      | 1    |      | F-3        |
|              | 535A0368H01 | Element, In-Line Filter (Spin-on Element)              | 1    |      |            |
|              | 950A0023H01 | Filter, In-Line, 270—676 (Original)                    | 1    |      | F-3        |
|              | 980A0012B76 | O-ring, In-Line Filter                                 | 1    |      |            |
|              | 950A0023H02 | Cartridge, Replacement (Remove 4 screws to replace)    | 1    |      |            |
|              | 535A0367H01 | Filter, In-Line, 270—676 (Current)                     | 1    |      | F-3        |
|              | 535A0369H01 | Element, In-Line Filter (Spin-on Element)              | 1    |      |            |
| —3           | 580D0047G02 | Valve, Angle, Seal Cap, 1/2" NPT, 60—222 (Frick)       | 1    |      |            |
|              | 950A0111H01 | Valve, Angle, Seal Cap, 1/2" NPT, 60—222 (Herl)        | 1    |      |            |
|              | 580D0037G02 | Valve, Angle, Seal Cap, 1-1/4" NPT, 270—399 (Frick)    | 1    |      |            |
|              | 950A0115H02 | Valve, Angle, Seal Cap, 1-1/4" NPT, 270—480 (Herl)     | 1    |      |            |
|              | 950A0125H02 | Valve, Angle, Seal Cap, 1-1/2" SW, (Herl), 316—676     | 1    |      |            |
| —4           | 580D0047G02 | Valve, Angle, Seal Cap, 1/2" NPT, 60—399 (Frick)       | 1    |      |            |
|              | 950A0109H02 | Valve, Angle, Seal Cap, 1/2" NPT, 60—399 (Herl)        | 1    |      |            |
| —5           | 581D0062G04 | Valve, Angle, Seal Cap, 1-1/2" WIL*, (Frick), 60—134   | 2    |      |            |
|              | 950A0131H02 | Valve, Angle, Seal Cap, 1-1/2" WIL, (Herl), 60—134     | 2    |      |            |
|              | 950A0125H02 | Valve, Angle, Seal Cap, 1-1/2" SW, (Herl), 60—134      | 2    |      |            |
|              | 581D0063G04 | Valve, Angle, Seal Cap, 2" WIL*, (Frick), 177—222      | 2    |      |            |
|              | 950A0133H02 | Valve, Angle, Seal Cap, 2" WIL, (Herl), 177—222        | 2    |      |            |
|              | 950A0127H02 | Valve, Angle, Seal Cap, 2" SW, (Herl), 177—222         | 2    |      |            |
|              | 580D0027G02 | Valve, Angle, Seal Cap, 2-1/2" Flg., (Frick), 270      | 2    |      |            |
|              | 581D0064G04 | Valve, Angle, Seal Cap, 2-1/2" WIL*, (Frick), 316—399  | 2    |      |            |
|              | 950A0135G02 | Valve, Angle, Seal Cap, 2-1/2" WIL, (Herl), 316—676    | 2    |      |            |

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| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I REF. |
|--------------|-------------|--------------------------------------------------------|------|------|------------|
| 7—           | —           | Prelube Oil Pump Piping, Continued                     | Ref. |      |            |
| —6           | 950A0019H01 | Strainer, 100 Mesh, 1/2" NPT, 60—222                   | 1    |      |            |
|              | 950A0019H02 | Gasket, Flange                                         | 1    |      |            |
|              | 950A0019H03 | Gasket, Screen                                         | 1    |      |            |
|              | 950A0019H04 | Screen w/Gasket                                        | 1    |      |            |
|              | 951A0037H16 | Strainer, 40 Mesh, 1-1/2" Fig., 270—399                | 1    |      |            |
|              | 950A0055H08 | Strainer, 60 Mesh, 1-1/2" Fig., 480, 676               | 1    |      |            |
|              | 950A0055H15 | Gasket, Flange                                         | 1    |      |            |
|              | 950A0055H21 | Gasket, Screen                                         | 1    |      |            |
|              | 950A0055H26 | Screen w/Gasket                                        | 1    |      |            |
|              | 950A0069H07 | Strainer, 60 Mesh, 1-1/2" S.W., 270—496                | 1    |      |            |
|              | 950A0069H25 | Gasket, Screen                                         | 1    |      |            |
|              | 950A006937  | Screen only                                            | 1    |      |            |
| —7           | 960A0043H03 | Oil Pump and Motor, 60—222                             | 1    |      |            |
|              | 960A0043H20 | Pump, 2-LEVCC-A-5 (960A0043H53 Rebuilt)                | 1    |      |            |
|              | 960A0043H51 | O-ring (Shaft Seal)                                    | 1    |      |            |
|              | 914A0057H02 | Motor, 3/4 HP, (230/460-3-60)(190/380-3-50)            | 1    |      |            |
|              | 960A0043H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0043H04 | Oil Pump and Motor, 60—222                             | 1    |      |            |
|              | 960A0043H20 | Pump, 2-LEVCC-A-5 (960A0043H53 Rebuilt)                | 1    |      |            |
|              | 960A0043H51 | O-ring (Shaft Seal)                                    | 1    |      |            |
|              | 914A0057H01 | Motor, 3/4 HP, 575-3-60                                | 1    |      |            |
|              | 960A0043H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0043H06 | Oil Pump and Motor, 60—222                             | 1    |      |            |
|              | 960A0043H20 | Pump, 2-LEVCC-A-5 (960A0043H53 Rebuilt)                | 1    |      |            |
|              | 960A0043H51 | O-ring (Shaft Seal)                                    | 1    |      |            |
|              | 914A0057H03 | Motor, 3/4 HP, 415-3-50                                | 1    |      |            |
|              | 960A0043H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0043H07 | Oil Pump and Motor, 60—222                             | 1    |      |            |
|              | 960A0043H20 | Pump, 2-LEVCC-A-5 (960A0043H53 Rebuilt)                | 1    |      |            |
|              | 960A0043H51 | O-ring (Shaft Seal)                                    | 1    |      |            |
|              | 914A0057H04 | Motor, 3/4 HP, 380-3-60                                | 1    |      |            |
|              | 960A0043H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0066G02 | Oil Pump and Motor, 270—399 & 480                      | 1    |      |            |
|              | 960A0066H01 | Pump, HJ495M (960A0066H51 Rebuilt)                     | 1    |      |            |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H02 | Motor, 1-1/2 HP, 230/460-3-60                          | 1    |      |            |
|              | 535M0197G01 | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |            |
|              | 960A0066H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0066G04 | Oil Pump and Motor, 496 & 676                          | 1    |      |            |
|              | 960A0066H02 | Pump, HL495M                                           | 1    |      |            |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H03 | Motor, 3 HP, (230/460-3-60)(190/380-3-50)              | 1    |      |            |
|              | 535M0197G02 | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |            |
|              | 960A0066H12 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0066G06 | Oil Pump and Motor, 100—676                            | 1    |      |            |
|              | 960A0066H01 | Pump, HJ495M (960A0066H51 Rebuilt)                     | 1    |      |            |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H04 | Motor, 1-1/2 HP, 190/380-3-50                          | 1    |      |            |
|              | 535M0197G01 | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |            |
|              | 960A0066H11 | Coupling, Drive                                        | 1    |      |            |

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|--------------------------------------------------------|------|------|---------------|
| —8              | 960A0066G09    | Oil Pump and Motor, 270—399                            | 1    |      |               |
|                 | 960A0066H01    | Pump, HJ495M (960A0066H51 Rebuilt)                     | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H08    | Motor, 1-1/2 HP, 575-3-60                              | 1    |      |               |
|                 | 960A0066H11    | Coupling, Drive                                        | 1    |      |               |
|                 | 960A0066G10    | Oil Pump and Motor, 270—399                            | 1    |      |               |
|                 | 960A0066H01    | Pump, HJ495M (960A0066H51 Rebuilt)                     | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H07    | Motor, 1-1/2 HP, 415-3-50                              | 1    |      |               |
|                 | 535M0197G01    | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |               |
|                 | 960A0066H11    | Coupling, Drive                                        | 1    |      |               |
|                 | 960A0066G13    | Oil Pump and Motor, 496 & 676                          | 1    |      |               |
|                 | 960A0066H02    | Pump, HL495M                                           | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H09    | Motor, 3 HP, 415-3-50                                  | 1    |      |               |
|                 | 960A0066H12    | Coupling, Drive                                        | 1    |      |               |
|                 | 960A0066G14    | Oil Pump and Motor, 496 & 676                          | 1    |      |               |
|                 | 960A0066H02    | Pump, HL495M                                           | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H10    | Motor, 3 HP, 575-3-60                                  | 1    |      |               |
|                 | 535M0197G02    | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |               |
|                 | 960A0066H12    | Coupling, Drive                                        | 1    |      |               |
|                 | 960A0066G16    | Oil Pump and Motor, 270—399                            | 1    |      |               |
|                 | 960A0066H01    | Pump, HJ495M (960A0066H51 Rebuilt)                     | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H11    | Motor, 1-1/2 HP, 380-3-60                              | 1    |      |               |
|                 | 535M0197G01    | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |               |
|                 | 960A0066H11    | Coupling, Drive                                        | 1    |      |               |
|                 | 960A0066G18    | Oil Pump and Motor, 496 & 676                          | 1    |      |               |
|                 | 960A0066H02    | Pump, HL495M                                           | 1    |      |               |
|                 | 960A0066H41    | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |               |
|                 | 914A0015H12    | Motor, 3 HP, 380-3-60                                  | 1    |      |               |
|                 | 535M0197G02    | Kit, Relief Valve (incl. hardware, gaskets or o-rings) | 1    |      |               |
|                 | 960A0066H12    | Coupling, Drive                                        | 1    |      |               |
|                 | 944A0360G11    | Flange, SW, 1-1/2", 270, 316, 399, 496                 | 1    |      |               |
|                 | 959A0057H05    | Gasket, Flange, 1-1/2"                                 | 1    |      |               |

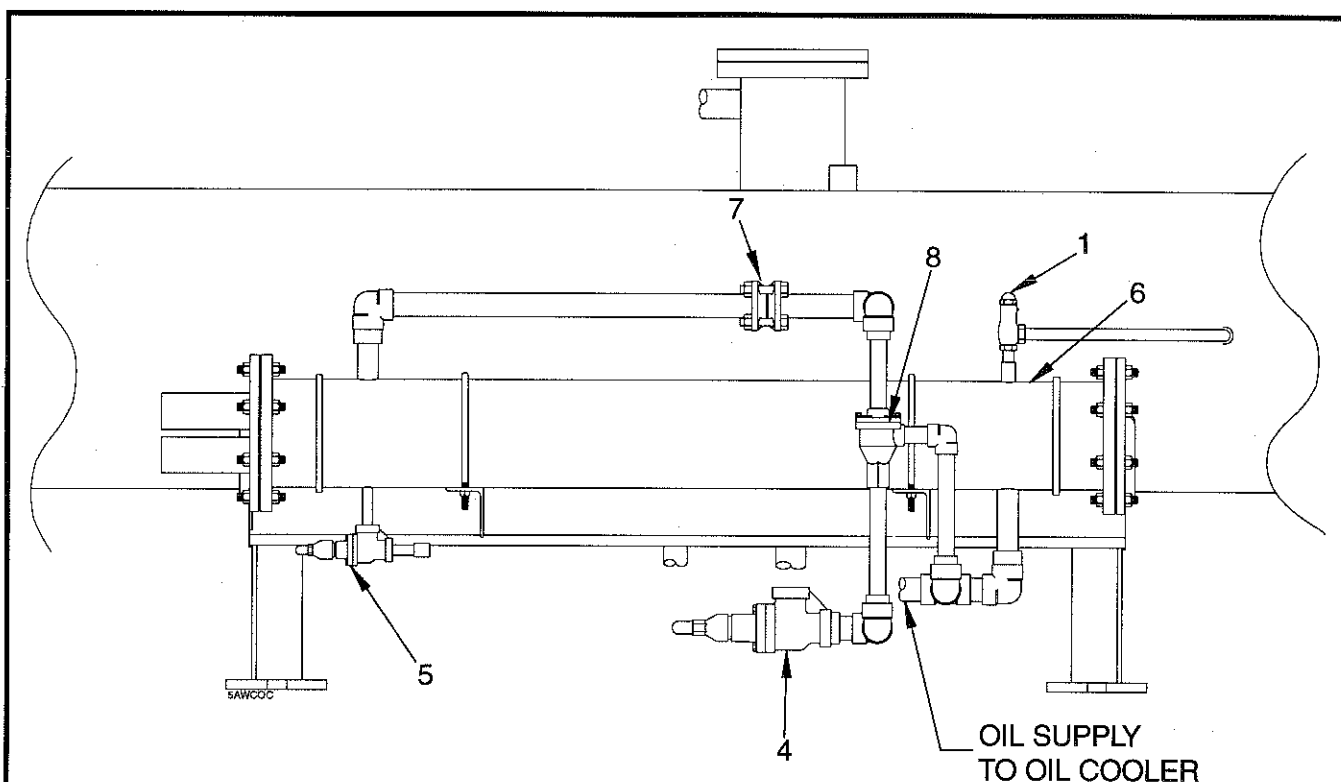


**Figure 8a. Oil Cooler Piping With Oil Temperature Regulating Valve.**

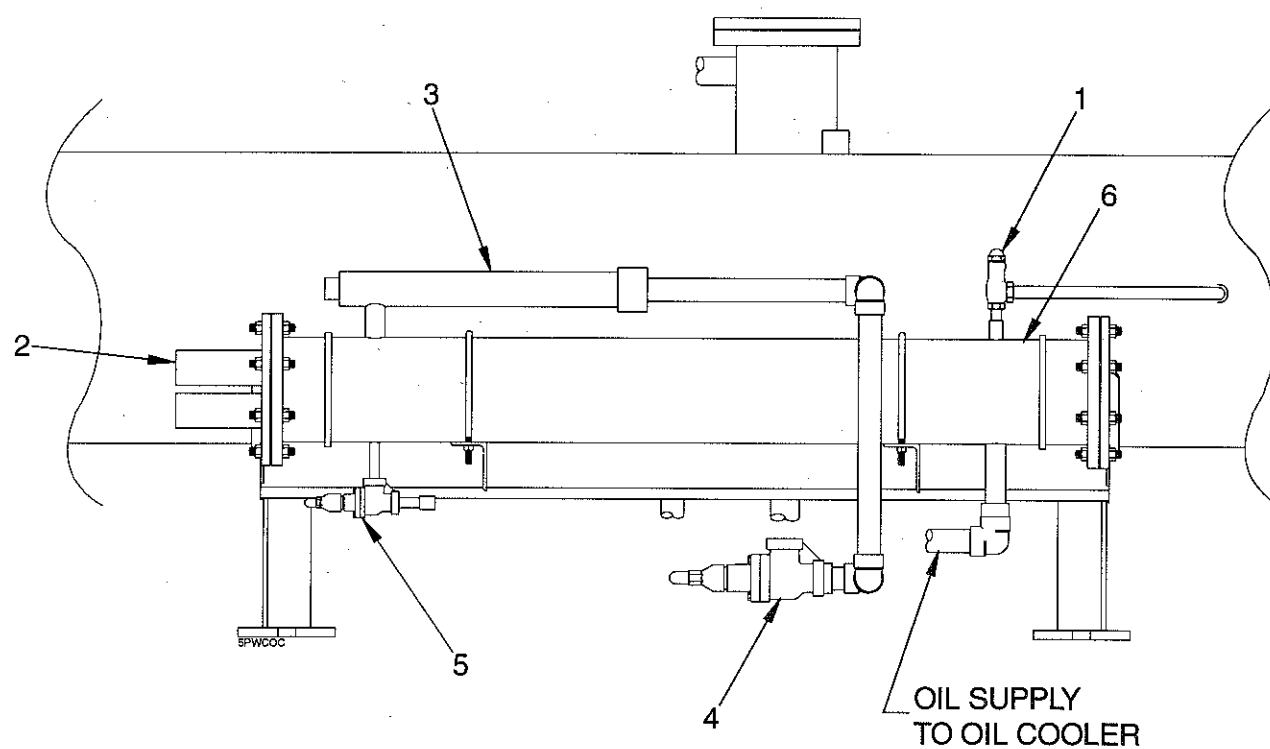


**Figure 8b. Oil Cooler Piping With Water Flow Regulating Valve.**

**Figure 8. Oil Cooler Piping, WCOC and TSOC, Typical (WCOC Shown).**

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                                                                                                                                               | QTY. | REV. | P & I REF. |
|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|
| 8—           | 535C0313    | Thermosyphon Oil Cooler Piping, 60 & 76                                                                                                                                                   | Ref. | F    |            |
|              | 535C0317    | Thermosyphon Oil Cooler Piping, 177 & 222                                                                                                                                                 | Ref. | F    |            |
|              | 535C0319    | Thermosyphon Oil Cooler Piping, 316 & 399                                                                                                                                                 | Ref. | F    |            |
|              | 535C0268    | Thermosyphon Oil Cooler Piping, 496 & 676                                                                                                                                                 | Ref. | D    |            |
|              | 535C0314    | Water Cooled Oil Cooler Piping, 60 & 76                                                                                                                                                   | Ref. | F    |            |
|              | 535C0318    | Water Cooled Oil Cooler Piping, 177 & 222                                                                                                                                                 | Ref. | F    |            |
|              | 535C0320    | Water Cooled Oil Cooler Piping, 316 & 399                                                                                                                                                 | Ref. | F    |            |
|              | 535C0271    | Water Cooled Oil Cooler Piping, 496 & 676                                                                                                                                                 | Ref. | C    |            |
|              | 720D0062    | 5 Ft. Water Cooled Oil Cooler Piping, 100 & 134                                                                                                                                           | Ref. | —    |            |
|              | 720D0075    | 5 Ft. Water Cooled Oil Cooler Piping, 270                                                                                                                                                 | Ref. | —    |            |
|              | 720D0063    | 5 Ft. Water Cooled Oil Cooler Piping with Amot, 100 & 134                                                                                                                                 | Ref. | —    |            |
|              | 720D0076    | 5 Ft. Water Cooled Oil Cooler Piping with Amot, 270                                                                                                                                       | Ref. | —    |            |
|              | 720D0064    | 10 Ft. Water Cooled Oil Cooler Piping, 100 & 134                                                                                                                                          | Ref. | —    |            |
|              | 720D0077    | 10 Ft. Water Cooled Oil Cooler Piping, 270                                                                                                                                                | Ref. | —    |            |
|              | 720D0065    | 10 Ft. Water Cooled Oil Cooler Piping with Amot, 100 & 134                                                                                                                                | Ref. | —    |            |
|              | 720D0078    | 10 Ft. Water Cooled Oil Cooler Piping with Amot, 270                                                                                                                                      | Ref. | —    |            |
|              | 720D0066    | 5 Ft. Thermosyphon Oil Cooler Piping, 100 & 134                                                                                                                                           | Ref. | —    |            |
|              | 720D0079    | 5 Ft. Thermosyphon Oil Cooler Piping, 270                                                                                                                                                 | Ref. | —    |            |
|              | 720D0067    | 5 Ft. Thermosyphon Oil Cooler Piping with Amot, 100 & 134                                                                                                                                 | Ref. | —    |            |
|              | 720D0080    | 5 Ft. Thermosyphon Oil Cooler Piping with Amot, 270                                                                                                                                       | Ref. | —    |            |
|              | 720D0068    | 10 Ft. Thermosyphon Oil Cooler Piping, 100 & 134                                                                                                                                          | Ref. | —    |            |
|              | 720D0081    | 10 Ft. Thermosyphon Oil Cooler Piping, 270                                                                                                                                                | Ref. | —    |            |
|              | 720D0069    | 10 Ft. Thermosyphon Oil Cooler Piping with Amot, 100 & 134                                                                                                                                | Ref. | —    |            |
|              | 720D0082    | 10 Ft. Thermosyphon Oil Cooler Piping with Amot, 270                                                                                                                                      | Ref. | —    |            |
|              | 720D0239    | 5 Ft. Water Cooled Oil Cooler Piping, 480                                                                                                                                                 | Ref. | —    |            |
|              | 720D0240    | 5 Ft. Water Cooled Oil Cooler Piping with Amot, 480                                                                                                                                       | Ref. | —    |            |
|              | 720D0241    | 10 Ft. Water Cooled Oil Cooler Piping, 480                                                                                                                                                | Ref. | —    |            |
|              | 720D0242    | 10 Ft. Thermosyphon Oil Cooler Piping with Amot, 270                                                                                                                                      | Ref. | —    |            |
|              | 720D0243    | 5 Ft. Thermosyphon Oil Cooler Piping, 480                                                                                                                                                 | Ref. | —    |            |
|              | 720D0244    | 5 Ft. Thermosyphon Oil Cooler Piping with Amot, 480                                                                                                                                       | Ref. | —    |            |
|              | 720D0245    | 10 Ft. Thermosyphon Oil Cooler Piping, 480                                                                                                                                                | Ref. | —    |            |
|              | 720D0246    | 10 Ft. Thermosyphon Oil Cooler Piping with Amot, 480                                                                                                                                      | Ref. | —    |            |
| —1           | 952A0019H10 | Valve, Safety, 1/2" Shank 803TJ, 300 PSIG, to Atmosphere*                                                                                                                                 | 1    |      |            |
|              | 952A0025H01 | Optional Arrangement with 400 PSIG Oil Coolers:<br>Valve, Oil Safety Relief, 1/2" Shank, Vent to Separator<br>*When replacing Frick ST Safety Valves<br>contact factory for correct size. | 1    |      |            |
| —2           | 950A0027H01 | Valve, Water Temp. Reg. 1", WCOC only**                                                                                                                                                   | 1    |      |            |
|              | 950A0027H02 | Valve, Water Temp. Reg. 1-1/4", WCOC only**                                                                                                                                               | 1    |      |            |
|              | 950A0027H03 | Valve, Water Temp. Reg. 1-1/2", WCOC only**                                                                                                                                               | 1    |      |            |
|              | 950A0027H04 | Valve, Water Temp. Reg. 2", WCOC only**                                                                                                                                                   | 1    |      |            |
|              | 950A0027H05 | Valve, Water Temp. Reg. 2-1/2", WCOC only**                                                                                                                                               | 1    |      |            |
|              | 950A0027H06 | Valve, Water Temp. Reg. 3", WCOC only**<br>**Shipped loose. Customer installs in water outlet.                                                                                            | 1    |      |            |
| —3           | 535A0154G01 | Chamber, Bulbwell, Original                                                                                                                                                               | 1    |      |            |
|              | 535A0391G01 | Chamber, Bulbwell, Current                                                                                                                                                                | 1    |      |            |
| —4           | 580D0167G04 | Valve, Angle, SW, SC, 1-1/2" (Frick)                                                                                                                                                      | 1    |      |            |
|              | 950A0125H02 | Valve, Angle, SW, SC, 1-1/2" (Herl)                                                                                                                                                       | 1    |      |            |
|              | 580D0164G04 | Valve, Angle, SW, SC, 2" (Frick)                                                                                                                                                          | 1    |      |            |
|              | 950A0127H02 | Valve, Angle, SW, SC, 2" (Herl)                                                                                                                                                           | 1    |      |            |
|              | 581D0064G04 | Valve, Angle, SW, SC, 2-1/2" (Frick)                                                                                                                                                      | 1    |      |            |
|              | 950A0135G02 | Valve, Angle, SW, SC, 2-1/2" (Gram)                                                                                                                                                       | 1    |      |            |

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**Frick**

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                               | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------------------------|------|------|------------|
| 8—           | —           | Oil Cooler Piping, Continued                              | Ref. |      |            |
| —5           | 580D0165G11 | Valve, Angle, SW, SC, 1/2" (Frick)                        | 1    |      |            |
|              | 950A0117H02 | Valve, Angle, SW, SC, 1/2" (Herl)                         | 1    |      |            |
| —6           | 547D0079G01 | Oil Cooler, Thermosyphon, 8-5/8 x 48", 300 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0079G02 | Oil Cooler, Thermosyphon, 8-5/8 x 72", 300 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0079G03 | Oil Cooler, Thermosyphon, 10-3/4 x 72", 300 PSIG, 2 Pass  | 1    |      |            |
|              | 547D0079G04 | Oil Cooler, Thermosyphon, 10-3/4 x 96", 300 PSIG, 2 Pass  | 1    |      |            |
|              | 547D0079G05 | Oil Cooler, Thermosyphon, 10-3/4 x 120", 300 PSIG, 2 Pass | 1    |      |            |
|              | 547D0620G08 | Oil Cooler, Thermosyphon, 12-3/4 x 96", 300 PSIG, 2 Pass  | 1    |      |            |
|              | 547D0620G09 | Oil Cooler, Thermosyphon, 12-3/4 x 120", 300 PSIG, 2 Pass | 1    |      |            |
|              | 547D0620G10 | Oil Cooler, Thermosyphon, 12-3/4 x 144", 300 PSIG, 2 Pass | 1    |      |            |
|              | 547D0620G11 | Oil Cooler, Thermosyphon, 12-3/4 x 168", 300 PSIG, 2 Pass | 1    |      |            |
|              | 547D0079G09 | Oil Cooler, Thermosyphon, 16 x 120", 300 PSIG, 2 Pass     | 1    |      |            |
|              | 547D0079G10 | Oil Cooler, Thermosyphon, 16 x 144", 300 PSIG, 2 Pass     | 1    |      |            |
|              | 547D0172G01 | Oil Cooler, Thermosyphon, 24 x 120", 300 PSIG, 2 Pass     | 1    |      |            |
|              | 547C0071G01 | Oil Cooler, Water Cooled, 8-5/8 x 72", 300 PSIG, 8 Pass   | 1    |      |            |
|              | 547C0178G01 | Oil Cooler, Water Cooled, 8-5/8 x 96", 300 PSIG, 8 Pass   | 1    |      |            |
|              | 959A0018H12 | Gasket, Head, WCOC, 8-5/8"                                | 2    |      |            |
|              | 959A0018H10 | Gasket, Strip, WCOC                                       | 1    |      |            |
|              | 901A0097H11 | Stud, Head, WCOC, 8-5/8"                                  | 24   |      |            |
|              | 902A0021H01 | Nut, Head, WCOC                                           | 24   |      |            |
|              | 547C0011G01 | Oil Cooler, Water Cooled, 10-3/4 x 72", 300 PSIG, 6 Pass  | 1    |      |            |
|              | 547C0010G01 | Oil Cooler, Water Cooled, 10-3/4 x 96", 300 PSIG, 6 Pass  | 1    |      |            |
|              | 547C0008G01 | Oil Cooler, Water Cooled, 10-3/4 x 120", 300 PSIG, 6 Pass | 1    |      |            |
|              | 540C0608H01 | Gasket, Front, WCOC, 10-3/4"                              | 1    |      |            |
|              | 540C0608H02 | Gasket, Rear, WCOC, 10-3/4"                               | 1    |      |            |
|              | 901A0098H11 | Stud, Head, WCOC                                          | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 24   |      |            |
|              | 547C0012G01 | Oil Cooler, Water Cooled, 12-3/4 x 120", 300 PSIG, 6 Pass | 1    |      |            |
|              | 540C0608H03 | Gasket, Front, WCOC, 12-3/4"                              | 1    |      |            |
|              | 540C0608H04 | Gasket, Rear, WCOC, 12-3/4"                               | 1    |      |            |
|              | 901A0098H14 | Stud, Head, WCOC                                          | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 24   |      |            |
|              | 547C0013G01 | Oil Cooler, Water Cooled, 16 x 120", 300 PSIG, 6 Pass     | 1    |      |            |
|              | 547C0188G01 | Oil Cooler, Water Cooled, 16 x 144", 300 PSIG, 4 Pass     | 1    |      |            |
|              | 540C0608H05 | Gasket, Front, WCOC, 16", 6 Pass                          | 1    |      |            |
|              | 540C0608H11 | Gasket, Front, WCOC, 16", 4 Pass                          | 1    |      |            |
|              | 540C0608H06 | Gasket, Rear, WCOC, 16", 6 Pass                           | 1    |      |            |
|              | 540C0608H12 | Gasket, Rear, WCOC, 16", 4 Pass                           | 1    |      |            |
|              | 901A0098H14 | Stud, Head, WCOC                                          | 32   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0211G01 | Oil Cooler, Thermosyphon, 6-5/8 x 60", 300 PSIG, 1 Pass   | 1    |      |            |
|              | 547D0212G01 | Oil Cooler, Thermosyphon, 8-5/8 x 60", 300 PSIG, 1 Pass   | 1    |      |            |
|              | 547D0213G01 | Oil Cooler, Thermosyphon, 6-5/8 x 120", 300 PSIG, 1 Pass  | 1    |      |            |
|              | 547D0214G01 | Oil Cooler, Thermosyphon, 8-5/8 x 120", 300 PSIG, 1 Pass  | 1    |      |            |
|              | 547D0215G01 | Oil Cooler, Thermosyphon, 10-3/4 x 120", 300 PSIG, 1 Pass | 1    |      |            |
|              | 547D0216G01 | Oil Cooler, Thermosyphon, 12-3/4 x 120", 300 PSIG, 1 Pass | 1    |      |            |
|              | 547D0268G01 | Oil Cooler, Thermosyphon, 16 x 120", 300 PSIG, 1 Pass     | 1    |      |            |

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                               | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------------------------|------|------|------------|
| —6           | 547D0217G01 | Oil Cooler, Water Cooled, 6-5/8 x 60", 300 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0219G01 | Oil Cooler, Water Cooled, 6-5/8 x 120", 300 PSIG, 2 Pass  | 1    |      |            |
|              | 959A0043H01 | Gasket, Head, WCOC, 6-5/8"                                | 2    |      |            |
|              | 901A0098H10 | Stud, Head, WCOC, 6-5/8"                                  | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0218G01 | Oil Cooler, Water Cooled, 8-5/8 x 60", 300 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0220G01 | Oil Cooler, Water Cooled, 8-5/8 x 120", 300 PSIG, 2 Pass  | 1    |      |            |
|              | 959A0043H02 | Gasket, Head, WCOC, 8-5/8"                                | 2    |      |            |
|              | 901A0098H10 | Stud, Head, WCOC, 8-5/8"                                  | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0221G01 | Oil Cooler, Water Cooled, 10-3/4 x 120", 300 PSIG, 2 Pass | 1    |      |            |
|              | 959A0043H03 | Gasket, Head, WCOC, 10-3/4"                               | 2    |      |            |
|              | 901A0098H11 | Stud, Head, WCOC, 10-3/4"                                 | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 48   |      |            |
|              | 547D0222G01 | Oil Cooler, Water Cooled, 12-3/4 x 120", 300 PSIG, 2 Pass | 1    |      |            |
|              | 959A0043H04 | Gasket, Head, WCOC, 12-3/4"                               | 2    |      |            |
|              | 901A0098H12 | Stud, Head, WCOC, 12-3/4"                                 | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 48   |      |            |
|              | 547D0269G01 | Oil Cooler, Water Cooled, 16 x 120", 300 PSIG, 2 Pass     | 1    |      |            |
|              | 959A0068H05 | Gasket, Head, WCOC, 16"                                   | 2    |      |            |
|              | 901A0098H11 | Stud, Head, Front, WCOC, 16"                              | 16   |      |            |
|              | 901A0098H09 | Stud, Head, Rear, WCOC, 16"                               | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0485G01 | Oil Cooler, Thermosyphon, 6-5/8 x 60", 400 PSIG, 1 Pass   | 1    |      |            |
|              | 547D0486G01 | Oil Cooler, Thermosyphon, 8-5/8 x 60", 400 PSIG, 1 Pass   | 1    |      |            |
|              | 547D0487G01 | Oil Cooler, Thermosyphon, 10-3/4 x 60", 400 PSIG, 1 Pass  | 1    |      |            |
|              | 547D0488G01 | Oil Cooler, Thermosyphon, 8-5/8 x 120", 400 PSIG, 1 Pass  | 1    |      |            |
|              | 547D0490G01 | Oil Cooler, Thermosyphon, 10-3/4 x 120", 400 PSIG, 1 Pass | 1    |      |            |
|              | 547D0491G01 | Oil Cooler, Thermosyphon, 12-3/4 x 120", 400 PSIG, 1 Pass | 1    |      |            |
|              | 547D0492G01 | Oil Cooler, Thermosyphon, 16 x 120", 400 PSIG, 1 Pass     | 1    |      |            |
|              | 547D0493G01 | Oil Cooler, Water Cooled, 6-5/8 x 60", 400 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0500G01 | Oil Cooler, Water Cooled, 6-5/8 x 60", 400 PSIG, 4 Pass   | 1    |      |            |
|              | 959A0040H16 | Gasket, Head, WCOC, 6-5/8"                                | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H16 | Stud, Head, WCOC, 6-5/8"                                  | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0494G01 | Oil Cooler, Water Cooled, 8-5/8 x 60", 400 PSIG, 2 Pass   | 1    |      |            |
|              | 547D0501G01 | Oil Cooler, Water Cooled, 8-5/8 x 60", 400 PSIG, 4 Pass   | 1    |      |            |
|              | 959A0040H15 | Gasket, Head, WCOC, 8-5/8"                                | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H19 | Stud, Head, WCOC, 8-5/8", 2 Pass                          | 16   |      |            |
|              | 901A0098H21 | Stud, Head, WCOC, 8-5/8", 4 Pass                          | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0495G01 | Oil Cooler, Water Cooled, 6-5/8 x 120", 400 PSIG, 2 Pass  | 1    |      |            |
|              | 547D0502G01 | Oil Cooler, Water Cooled, 6-5/8 x 120", 400 PSIG, 4 Pass  | 1    |      |            |
|              | 959A0040H16 | Gasket, Head, WCOC, 6-5/8"                                | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H16 | Stud, Head, WCOC, 6-5/8"                                  | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0496G01 | Oil Cooler, Water Cooled, 8-5/8 x 120", 400 PSIG, 2 Pass  | 1    |      |            |
|              | 547D0503G01 | Oil Cooler, Water Cooled, 8-5/8 x 120", 400 PSIG, 4 Pass  | 1    |      |            |
|              | 959A0040H15 | Gasket, Head, WCOC, 8-5/8"                                | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H19 | Stud, Head, WCOC, 8-5/8", 2 Pass                          | 16   |      |            |
|              | 901A0098H21 | Stud, Head, WCOC, 8-5/8", 4 Pass                          | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |

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| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                               | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------------------------|------|------|------------|
| 8—           | —           | Oil Cooler Piping, Continued                              |      |      |            |
| —6           | 547D0497G01 | Oil Cooler, Water Cooled, 10-3/4 x 120", 400 PSIG, 2 Pass | 1    |      |            |
|              | 547D0504G01 | Oil Cooler, Water Cooled, 10-3/4 x 60", 400 PSIG, 4 Pass  | 1    |      |            |
|              | 959A0040H17 | Gasket, Head, WCOC, 10-3/4"                               | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H21 | Stud, Head, WCOC, 10-3/4 x 120", 2 Pass                   | 16   |      |            |
|              | 901A0098H22 | Stud, Head, WCOC, 10-3/4 x 60", 4 Pass                    | 16   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 32   |      |            |
|              | 547D0498G01 | Oil Cooler, Water Cooled, 12-3/4 x 120", 400 PSIG, 2 Pass | 1    |      |            |
|              | 959A0040H18 | Gasket, Head, WCOC, 12-3/4"                               | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H24 | Stud, Head, WCOC, 12-3/4"                                 | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 48   |      |            |
|              | 547D0499G01 | Oil Cooler, Water Cooled, 16 x 120", 400 PSIG, 2 Pass     | 1    |      |            |
|              | 959A0040H19 | Gasket, Head, WCOC, 16"                                   | 2    |      |            |
|              | 959A0040H50 | Strip, Gasket (Front Only)                                | 1    |      |            |
|              | 901A0098H31 | Stud, Head, WCOC, 16"                                     | 24   |      |            |
|              | 902A0021H03 | Nut, Head, WCOC                                           | 48   |      |            |
| —7           | 944A0360G09 | Flange, SW, 1"                                            | 1    |      |            |
|              | 959A0057H03 | Gasket, Flange, 1"                                        | 1    |      |            |
|              | 944A0360G11 | Flange, SW, 1-1/2"                                        | 1    |      |            |
|              | 959A0057H05 | Gasket, Flange, 1-1/2"                                    | 1    |      |            |
|              | 944A0360G12 | Flange, SW, 2"                                            | 1    |      |            |
|              | 959A0057H07 | Gasket, Flange, 2"                                        | 1    |      |            |
| —8           | 950A0029H01 | Valve, Temp. Reg. 1" FPT, Amot                            | 1    |      |            |
|              | 950A0066G01 | Kit, Service, 1"                                          | 1    |      |            |
|              | 950A0029H21 | Element, Thermostatic, 120°                               | 1    |      |            |
|              | 950A0029G31 | Kit, Seal                                                 | 1    |      |            |
|              | 950A0046H01 | Valve, Temp. Reg. 1" S.W., Amot                           | 1    |      |            |
|              | 950A0066G01 | Kit, Service, 1"                                          | 1    |      |            |
|              | 950A0029H21 | Element, Thermostatic, 120°                               | 1    |      |            |
|              | 950A0029G31 | Kit, Seal                                                 | 1    |      |            |
|              | 950A0028H01 | Valve, Temp. Reg. 1-1/2" FPT, Amot                        | 1    |      |            |
|              | 950A0067G01 | Kit, Service, 1-1/2"                                      | 1    |      |            |
|              | 950A0028H21 | Element, Thermostatic, 120°                               | 1    |      |            |
|              | 950A0028G31 | Kit, Seal                                                 | 1    |      |            |
|              | 950A0030H01 | Valve, Temp. Reg. 2" FPT, Amot                            | 1    |      |            |
|              | 950A0068G01 | Kit, Service, 2"                                          | 1    |      |            |
|              | 950A0030H21 | Element, Thermostatic, 120°                               | 1    |      |            |
|              | 950A0030G31 | Kit, Seal                                                 | 1    |      |            |

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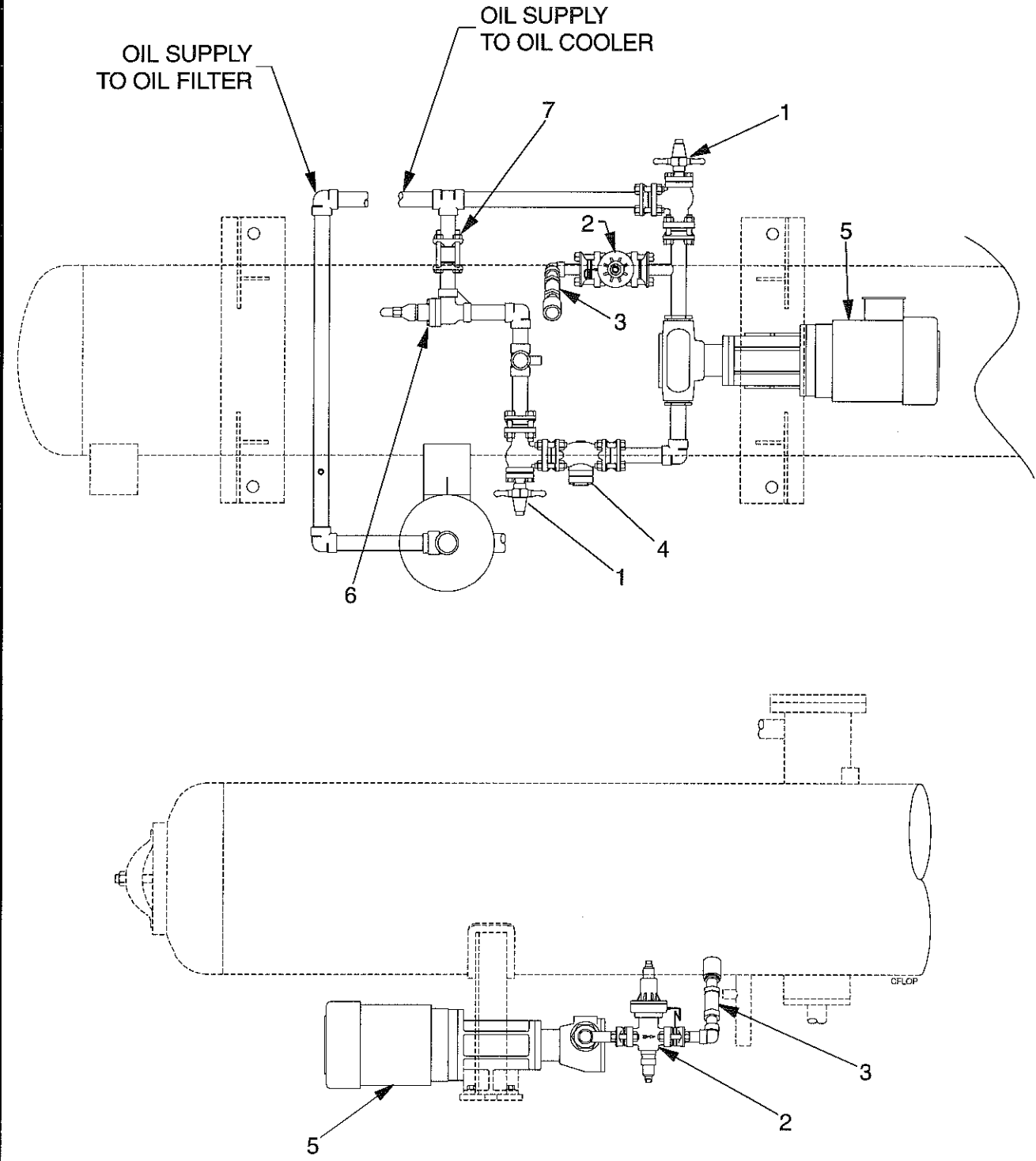


Figure 9. Full-Lube/Full-Cycling Oil Pump Piping, Typical.

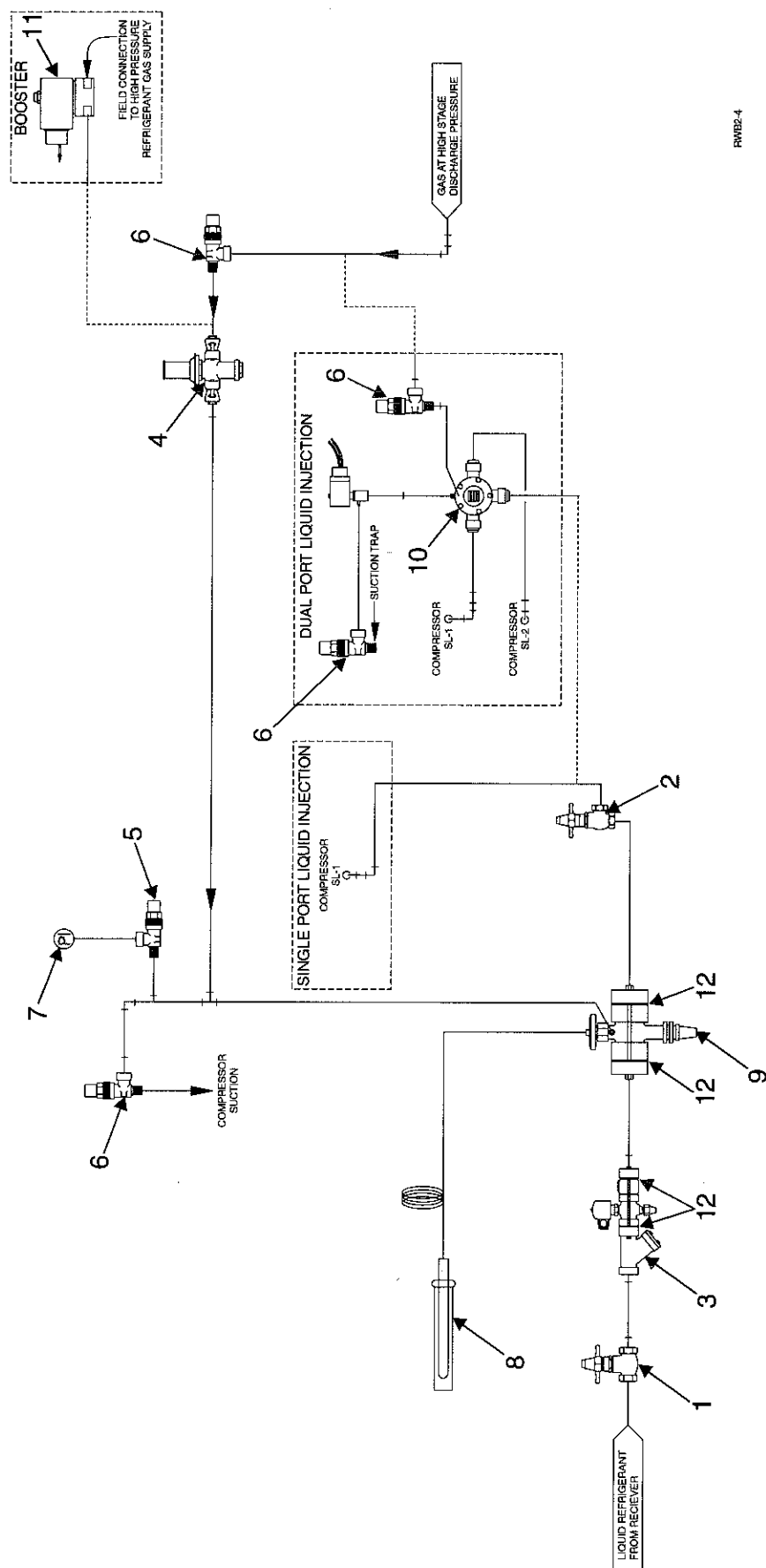
| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I REF. |
|--------------|-------------|--------------------------------------------------------|------|------|------------|
| 9—           | 720D0238    | Cycling Full-Lube Oil Pump, 480                        | Ref. | A    |            |
|              | 720D0047    | Full-Lube Oil Pump Piping, 60 & 76                     | Ref. | E    |            |
|              | 720D0228    | Full-Lube Oil Pump Piping, 100 & 134                   | Ref. | B    |            |
|              | 720D0085    | Full-Lube Oil Pump Piping, 177 & 222                   | Ref. | E    |            |
|              | 720D0073    | Full-Lube Oil Pump Piping, 270                         | Ref. | G    |            |
|              | 720D0106    | Full-Lube Oil Pump Piping, 316 & 399                   | Ref. | D    |            |
|              | 720D0237    | Full-Lube Oil Pump Piping, 480                         | Ref. | A    |            |
|              | 720D0119    | Oil Pump, 496 & 676                                    | Ref. | C    |            |
|              | 720D0211    | Full-Lube Oil Pump Piping, 856                         | Ref. | A    |            |
| —1           | 580D0021G02 | Valve, Angle, Seal Cap, 1-1/2" Flg., 60—134            | 2    |      |            |
|              | 580D0019G02 | Valve, Angle, Seal Cap, 2" Flg., 177—222               | 2    |      |            |
|              | 580D0027G02 | Valve, Angle, Seal Cap, 2-1/2" Flg., 270—399           | 2    |      |            |
|              | 950A0137G02 | Valve, Angle, Seal Cap, 3" W.I.L., (Gram), 856         | 2    |      |            |
| —2           | 954A0007H01 | Regulator, Differential Pressure, 60—399               | 1    |      |            |
|              | 954A0007H03 | Regulator, Differential Pressure, 496—856              | 1    |      |            |
| —3           | 956A0014H02 | Valve, Check, In-Line, 1", 60—399                      | 1    |      |            |
|              | 956A0014H01 | Valve, Check, In-Line, 1-1/4", 60—399                  | 1    |      |            |
|              | 956A0012G06 | Valve, Check, In-Line, 1-1/4", 496—856                 | 1    |      |            |
| —4           | 950A0069H07 | Strainer, 60 Mesh, 1-1/2", Current, (Hayward), 60—76   | 1    |      |            |
|              | 950A0069H25 | Gasket, Screen                                         | 1    |      |            |
|              | 950A0069H37 | Screen only                                            | 1    |      |            |
|              | 951A0037H16 | Strainer, 40 Mesh, 1-1/2", (Hubbel), 60—134            | 1    |      |            |
|              | 951A0037H14 | Strainer, 40 Mesh, 2", (Hubbel), 177 & 222             | 1    |      |            |
|              | 959A0057H18 | Gasket, Strainer Cap 2"                                | 1    |      |            |
|              | 951A0037H15 | Strainer, 40 Mesh, 2-1/2", Original, (Hubbel), 270—399 | 1    |      |            |
|              | 950A0055H07 | Strainer, 60 Mesh, 2-1/2", Current, (R/S), 270—399     | 1    |      |            |
|              | 950A0055H27 | Kit, Screen (950A0055H22 Gasket only)                  | 1    |      |            |
|              | 950A0055H16 | Gasket, Flange                                         | 1    |      |            |
|              | 950A0001H09 | Strainer, 60 Mesh, 3", Current, (R/S), 496—856         | 1    |      |            |
| —5           | 960A0066G01 | Oil Pump/Motor, Viking, 1.5 HP, 1750/1450 RPM          | 1    |      |            |
|              | 960A0066H01 | Pump, HJ495M                                           | 1    |      | P-1        |
|              | 960A0066H51 | Pump, Rebuilt, HJ495M                                  | 1    |      | P-1        |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H02 | Motor only, 230/460V                                   | 1    |      | PM-1       |
|              | 960A0066H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0066G05 | Oil Pump/Motor, Viking, 1.5 HP, 1450 RPM               | 1    |      |            |
|              | 960A0066H01 | Pump, HJ495M                                           | 1    |      | P-1        |
|              | 960A0066H51 | Pump, Rebuilt, HJ495M                                  | 1    |      | P-1        |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H02 | Motor only, 190/380V                                   | 1    |      | PM-1       |
|              | 960A0066H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0066G03 | Oil Pump/Motor, Viking, 3 HP, 1450/1750 RPM            | 1    |      |            |
|              | 960A0066H02 | Pump, HL495M                                           | 1    |      | P-1        |
|              | 960A0066H52 | Pump, Rebuilt, HL495M                                  | 1    |      | P-1        |
|              | 960A0066H41 | Kit, Shaft Seal (incl. bearings, seal, o-ring & nut)   | 1    |      |            |
|              | 914A0015H03 | Motor only, 190/380V-230/460V                          | 1    |      | PM-1       |
|              | 960A0066H12 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0067G01 | Oil Pump/Motor, Viking, 3 HP, 1150 RPM                 | 1    |      |            |
|              | 960A0067H01 | Pump, AS495M                                           | 1    |      | P-1        |
|              | 960A0067H41 | Kit, Shaft Seal (incl. bearings, seals, o-ring & nut)  | 1    |      |            |
|              | 914A0016H01 | Motor only, 230/460V                                   | 1    |      | PM-1       |
|              | 960A0067H11 | Coupling, Drive                                        | 1    |      |            |
|              | 960A0067G03 | Oil Pump/Motor, Viking, 5 HP, 1450 RPM                 | 1    |      |            |
|              | 960A0067H01 | Pump, AS495M                                           | 1    |      | P-1        |
|              | 960A0067H41 | Kit, Shaft Seal (incl. bearings, seals, o-ring & nut)  | 1    |      |            |
|              | 914A0016H02 | Motor only, 190/380V                                   | 1    |      | PM-1       |
|              | 960A0067H11 | Coupling, Drive                                        | 1    |      |            |

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| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I REF. |
|--------------|-------------|----------------------------------------------------------|------|------|------------|
| 9—<br>—5     | —           | Full Lube/Full Cycling Oil Pump Piping, Continued        |      |      |            |
|              | 960A0067G05 | Oil Pump/Motor, Viking, 5 HP, 1150 RPM                   | 1    |      |            |
|              | 960A0067H02 | Pump, AK495M                                             | 1    |      | P-1        |
|              | 960A0067H41 | Kit, Shaft Seal (incl. bearings, seals, o-ring & nut)    | 1    |      |            |
|              | 914A0016H03 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0067H11 | Coupling, Drive                                          | 1    |      |            |
|              | 960A0067G09 | Oil Pump/Motor, Viking, 7.5 HP, 1150 RPM                 | 1    |      |            |
|              | 960A0067H03 | Pump, AL495M                                             | 1    |      | P-1        |
|              | 960A0067H41 | Kit, Shaft Seal (incl. bearings, seals, o-ring & nut)    | 1    |      |            |
|              | 914A0016H05 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0067H12 | Coupling, Drive                                          | 1    |      |            |
|              | 960A0067G07 | Oil Pump/Motor, Viking, 7.5 HP, 1450 RPM                 | 1    |      |            |
|              | 960A0067H02 | Pump, AK495M                                             | 1    |      | P-1        |
|              | 960A0067H41 | Kit, Shaft Seal (incl. bearings, seals, o-ring & nut)    | 1    |      |            |
|              | 914A0016H04 | Motor 190/380V                                           | 1    |      | PM-1       |
|              | 960A0067H11 | Coupling, Drive                                          | 1    |      |            |
|              | 960A0060H01 | Oil Pump/Motor, Viking w/gear reducer, 7.5 HP (Original) | 1    |      |            |
|              | 960A0060H11 | Pump, L4125                                              | 1    |      | P-1        |
|              | 535M0202G04 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H06 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0060H20 | Gear Reducer, 4.1 Ratio                                  | 1    |      |            |
|              | 960A0060H30 | Coupling                                                 | 1    |      |            |
|              | 960A0080G01 | Oil Pump/Motor, Viking w/gear reducer, 7.5 HP (Current)  | 1    |      |            |
|              | 960A0080H01 | Pump, L4124A                                             | 1    |      | P-1        |
|              | 960A0080H41 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H06 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0080H20 | Gear Reducer, 4.1 Ratio                                  | 1    |      |            |
|              | 960A0080H30 | Coupling                                                 | 1    |      |            |
|              | 960A0080G07 | Oil Pump/Motor, Viking w/gear reducer, 7.5 HP (Current)  | 1    |      |            |
|              | 960A0080H01 | Pump, L4124A                                             | 1    |      | P-1        |
|              | 960A0080H41 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H10 | Motor 190/380V                                           | 1    |      | PM-1       |
|              | 960A0080H20 | Gear Reducer, 4.1 Ratio                                  | 1    |      |            |
|              | 960A0080H30 | Coupling                                                 | 1    |      |            |
|              | 960A0060H02 | Oil Pump/Motor, Viking w/gear reducer, 10 HP (Original)  | 1    |      |            |
|              | 960A0060H11 | Pump, L4125                                              | 1    |      | P-1        |
|              | 535M0202G04 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H07 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0060H21 | Gear Reducer                                             | 1    |      |            |
|              | 960A0060H31 | Coupling                                                 | 1    |      |            |
|              | 960A0080G02 | Oil Pump/Motor, Viking w/gear reducer, 10 HP (Current)   | 1    |      |            |
|              | 960A0080H01 | Pump, L4124A                                             | 1    |      | P-1        |
|              | 960A0080H41 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H07 | Motor 230/460V                                           | 1    |      | PM-1       |
|              | 960A0080H22 | Gear Reducer                                             | 1    |      |            |
|              | 960A0080H31 | Coupling                                                 | 1    |      |            |
|              | 960A0078G03 | Oil Pump/Motor, Viking w/gear reducer, 10 HP             | 1    |      |            |
|              | 960A0078H01 | Pump, LQ4124A                                            | 1    |      | P-1        |
|              | 960A0078H41 | Kit, Shaft Seal (incl. bearing, seals, & gaskets)        | 1    |      |            |
|              | 914A0016H07 | Motor 230/460                                            | 1    |      | PM-1       |
|              | 960A0078H21 | Gear Reducer                                             | 1    |      |            |
|              | 960A0078H32 | Coupling                                                 | 1    |      |            |

| FIG. & INDEX | ITEM NUMBER                                         | DESCRIPTION                                                | QTY. | REV. | P & I REF. |
|--------------|-----------------------------------------------------|------------------------------------------------------------|------|------|------------|
| —6           | 960A0078G09                                         | Oil Pump/Motor, Viking w/gear reducer, 10 HP               | 1    |      |            |
|              | 960A0078H01                                         | Pump, LQ4124A                                              | 1    |      | P-1        |
|              | 960A0078H41                                         | Kit, Shaft Seal (incl. bearing, seals, & gaskets)          | 1    |      |            |
|              | 914A0016H11                                         | Motor 190/380                                              | 1    |      | PM-1       |
|              | 960A0078H21                                         | Gear Reducer                                               | 1    |      |            |
|              | 960A0078H32                                         | Coupling                                                   | 1    |      |            |
|              | 960A0080G08                                         | Oil Pump/Motor, Viking w/gear reducer, 10 HP (Current)     | 1    |      |            |
|              | 960A0080H01                                         | Pump, L4124A                                               | 1    |      | P-1        |
|              | 960A0080H41                                         | Kit, Shaft Seal (incl. bearing, seals, & gaskets)          | 1    |      |            |
|              | 914A0016H11                                         | Motor 190/380V                                             | 1    |      | PM-1       |
|              | 960A0080H22                                         | Gear Reducer, 3.3 Ratio                                    | 1    |      |            |
|              | 960A0080H31                                         | Coupling                                                   | 1    |      |            |
|              | 720D0048                                            | Full-Cycling Oil Pump, 60 & 76                             | Ref. | E    |            |
|              | 720D0229                                            | Full-Cycling Oil Pump, 100 & 134                           | Ref. | B    |            |
|              | 720D0086                                            | Full-Cycling Oil Pump, 177 & 222                           | Ref. |      |            |
|              | 720D0074                                            | Full-Cycling Oil Pump, 270                                 | Ref. | E    |            |
|              | 720D0107                                            | Full-Cycling Oil Pump, 316 & 399                           | Ref. | D    |            |
|              | 720M0004G32                                         | Full-Cycling Oil Pump, 480, 60Hz                           | Ref. |      |            |
|              | 720M0004G31                                         | Full-Cycling Oil Pump, 480, 50Hz                           | Ref. |      |            |
|              | 720D0127                                            | Full-Cycling Oil Pump, 676                                 | Ref. | C    |            |
|              | 581D0062G04                                         | Valve, Angle, Seal Cap, 1-1/2" W.I.L.*, (Frick), 60 & 76   | 1    |      |            |
|              | 950A0131H02                                         | Valve, Angle, Seal Cap, 1-1/2" W.I.L., (Herl), 60 & 76     | 1    |      |            |
|              | 580D0167G04                                         | Valve, Angle, Seal Cap, 1-1/2" S.W.*, (Frick), 100 & 134   | 1    |      |            |
|              | 950A0125H02                                         | Valve, Angle, Seal Cap, 1-1/2" S.W., (Herl), 100 & 134     | 1    |      |            |
|              | 580D0164G04                                         | Valve, Angle, Seal Cap, 2" S.W.*, (Frick), 177—270         | 1    |      |            |
|              | 950A0127H02                                         | Valve, Angle, Seal Cap, 2" S.W., (Herl), 177—270           | 1    |      |            |
|              | 581D0064G04                                         | Valve, Angle, Seal Cap, 2-1/2" W.I.L.*, (Frick), 316 & 399 | 1    |      |            |
|              | 950A0135G02                                         | Valve, Angle, Seal Cap, 2-1/2" W.I.L., (Gram), 316 & 399   | 1    |      |            |
|              | *For Service Parts, see Frick P160-803 Price Sheet. |                                                            |      |      |            |
| —7           | 956A0012G03                                         | Valve, Check, 1-1/2" S.W., 60—134                          | 1    |      |            |
|              | 956A0012G10                                         | Valve, Check, 2" S.W., 177 & 222                           | 1    |      |            |
|              | 956A0012G05                                         | Valve, Check, 2-1/2" S.W., 270—399                         | 1    |      |            |



RWB2-4

Figure 10. Liquid Injection Piping, Typical.

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                          | QTY. | REV. | P & I REF. |
|--------------|-------------|----------------------------------------------------------------------|------|------|------------|
| 10—          | 720C0012    | Single-Port Liquid Injection                                         | Ref. | C    |            |
|              | 720C0013    | Dual-Port Liquid Injection                                           | Ref. | C    |            |
|              | 720C0014    | Liquid Injection - Booster                                           | Ref. | D    |            |
|              | 720C0022    | Single-Port Liquid Injection                                         | Ref. | —    |            |
|              | 720C0023    | Dual-Port Liquid Injection                                           | Ref. | —    |            |
|              | 720C0024    | Liquid Injection - Booster                                           | Ref. | —    |            |
| —1           | 580D0047G01 | Valve, Globe, Seal Cap, 1/2" NPT (Frick)                             | 1    |      |            |
|              | 950A0110H02 | Valve, Globe, Seal Cap, 1/2" NPT (Herl)                              | 1    |      |            |
|              | 950A0118H02 | Valve, Globe, Seal Cap, 1/2" SW (Herl)                               | 1    |      |            |
|              | 580D0043G01 | Valve, Globe, Seal Cap, 3/4" NPT (Frick)                             | 1    |      |            |
|              | 950A0112H02 | Valve, Globe, Seal Cap, 3/4" NPT (Herl)                              | 1    |      |            |
|              | 950A0120H02 | Valve, Globe, Seal Cap, 3/4" SW (Herl)                               | 1    |      |            |
|              | 580D0039G01 | Valve, Globe, Seal Cap, 1" NPT (Frick)                               | 1    |      |            |
|              | 950A0114H02 | Valve, Globe, Seal Cap, 1" NPT (Herl)                                | 1    |      |            |
|              | 950A0122H02 | Valve, Globe, Seal Cap, 1" SW (Herl)                                 | 1    |      |            |
|              | 950A0124H02 | Valve, Globe, Seal Cap, 1-1/4" SW (Herl)                             | 1    |      |            |
|              | 950A0116H02 | Valve, Globe, Seal Cap, 1-1/4" NPT (Herl)                            | 1    |      |            |
|              | 950A0126H02 | Valve, Globe, Seal Cap, 1-1/2" SW (Herl)                             | 1    |      |            |
| —2           | 580D0047G02 | Valve, Angle, Seal Cap, 1/2" NPT (Frick)                             | 1    |      |            |
|              | 950A0109H02 | Valve, Angle, Seal Cap, 1/2" NPT (Herl)                              | 1    |      |            |
|              | 950A0117H02 | Valve, Angle, Seal Cap, 1/2" SW (Herl)                               | 1    |      |            |
|              | 580D0043G02 | Valve, Angle, Seal Cap, 3/4" NPT (Frick)                             | 1    |      |            |
|              | 950A0111H02 | Valve, Angle, Seal Cap, 3/4" NPT (Herl)                              | 1    |      |            |
|              | 950A0119H02 | Valve, Angle, Seal Cap, 3/4" SW (Herl)                               | 1    |      |            |
|              | 580D0039G02 | Valve, Angle, Seal Cap, 1" NPT (Frick)                               | 1    |      |            |
|              | 950A0113H02 | Valve, Angle, Seal Cap, 1" NPT (Herl)                                | 1    |      |            |
|              | 950A0121H02 | Valve, Angle, Seal Cap, 1" SW (Herl)                                 | 1    |      |            |
|              | 950A0123H02 | Valve, Angle, Seal Cap, 1-1/4" SW (Herl)                             | 1    |      |            |
| —3           | 950A0018G01 | Kit, Valve & Strainer, 3/4" NPT, w/AAE 20—100, R-717 <sup>(1)</sup>  | Ref. |      |            |
|              | 951A0041H01 | Valve, Solenoid, 3/4" FPT                                            | 1    |      | SV5        |
|              | 950A0190H01 | Coil, Solenoid, 120V/60Hz                                            | 1    |      |            |
|              | 950A0012H01 | Strainer, 80 Mesh, 3/4" FPT                                          | 1    |      |            |
|              | 950A0012H04 | Screen w/Gasket                                                      | 1    |      |            |
|              | 950A0018G02 | Kit, Valve & Strainer, 1/2" NPT, w/DAE 2 & 5, R-717 <sup>(1)</sup>   | Ref. |      |            |
|              | 951A0066H01 | Valve, Solenoid                                                      | 1    |      | SV5        |
|              | 950A0190H01 | Coil, Solenoid, 120V/60Hz                                            | 1    |      |            |
|              | 950A0019H01 | Strainer, 100 Mesh, 1/2" FPT/flanged outlet                          | 1    |      |            |
|              | 950A0019H04 | Kit, Strainer Screen & Gasket                                        | 1    |      |            |
|              | 950A0042G01 | Kit, Valve & Strainer, 1/2" NPT, w/DAE 10 & 15, R-717 <sup>(1)</sup> | Ref. |      |            |
|              | 951A0041H01 | Valve, Solenoid, 3/4" FPT                                            | 1    |      | SV-5       |
|              | 950A0190H01 | Coil, Solenoid, 120V/60Hz                                            | 1    |      |            |
|              | 950A0054H01 | Strainer, 80 Mesh, 1/2" FPT                                          | 1    |      |            |
|              | 950A0054H04 | Kit, Strainer Screen & Gasket                                        | 1    |      |            |
|              | 950A0186G01 | Kit, Valve & Regulator, 3/4" SW, w/AAE 20—100, R-717 <sup>(1)</sup>  | Ref. |      |            |
|              | 951A0041H01 | Valve, Solenoid, 3/4" FPT                                            | 1    |      | SV-5       |
|              | 950A0190H01 | Coil, Solenoid, 120V/60Hz                                            | 1    |      |            |
|              | 950A0069H04 | Strainer, 60 Mesh, Y-type, 3/4" SW (not incl. w/950A0186G01)         | 1    |      |            |
|              | 950A0069H22 | Gasket, Strainer                                                     | 1    |      |            |
|              | 950A0069H34 | Screen, Strainer                                                     | 1    |      |            |
|              | 950A0186G03 | Kit, Valve & Regulator, 1" SW, w/AAE 20—100, R-717 <sup>(1)</sup>    | Ref. |      |            |
|              | 951A0041H01 | Valve, Solenoid, 3/4" NPT                                            | 1    |      | SV-5       |
|              | 950A0190H01 | Coil, Solenoid, 120V/60Hz                                            | 1    |      |            |
|              | 950A0069H05 | Strainer, 60 Mesh, Y-type, 1" SW (not incl. w/950A0186G03)           | 1    |      |            |
|              | 950A0069H23 | Gasket, Strainer                                                     | 1    |      |            |
|              | 950A0069H35 | Screen, Strainer                                                     | 1    |      |            |

RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST

**Frick**

| FIG. & INDEX | ITEM NUMBER         | DESCRIPTION                                                           | QTY. | REV. | P & I REF. |
|--------------|---------------------|-----------------------------------------------------------------------|------|------|------------|
| 10—          | —                   | Liquid Injection, Continued                                           | Ref. |      |            |
| —3           | 950A0186G02         | Kit, Valve & Strainer, 1/2" SW, w/DAE 2 & 5, R-717 <sup>(1)</sup>     | Ref. |      |            |
|              | 951A0066H01         | Valve, Solenoid                                                       | 1    |      | SV5        |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0069H03         | Strainer, 100 Mesh                                                    | 1    |      |            |
|              | 950A0069H21         | Gasket, Screen                                                        | 1    |      |            |
|              | 950A0069H33         | Screen only                                                           | 1    |      |            |
|              | 950A0188G01         | Kit, Valve & Regulator, 1/2" SW, w/DAE 10 & 15, R-717 <sup>(1)</sup>  | Ref. |      |            |
|              | 951A0041H01         | Valve, Solenoid, 3/4" FPT                                             | 1    |      | SV-5       |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0069H03         | Strainer, 60 Mesh, Y-type, 1/2" SW (not incl. w/950A0188G01)          | 1    |      |            |
|              | 950A0069H21         | Gasket, Strainer                                                      | 1    |      |            |
|              | 950A0069H33         | Screen only                                                           | 1    |      |            |
|              | 950A0021G03         | Kit, Valve & Strainer, 1/2" NPT, w/HVE 2—16, R-22 <sup>(1)</sup>      | Ref. |      |            |
|              | 951A0041H01         | Valve, Solenoid, 3/4" FPT                                             | 1    |      | SV-5       |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0012H01         | Strainer, 80 Mesh, 3/4" FPT                                           | 1    |      |            |
|              | 950A0012H04         | Screen w/Gasket                                                       | 1    |      |            |
|              | 950A0021G04         | Kit, Valve & Strainer, 1" NPT, w/MVE 12—34, R-22 <sup>(1)</sup>       | Ref. |      |            |
|              | Contact Frick Parts | Valve, Solenoid, 1" FPT                                               | 1    |      | SV-5       |
|              | 950A0190H03         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0012H01         | Strainer, 80 Mesh, 3/4" FPT                                           | 1    |      |            |
|              | 950A0012H04         | Screen w/Gasket                                                       | 1    |      |            |
|              | 950A0021G05         | Kit, Valve & Regulator, 1-1/2" NPT, w/VVE 52—100, R-22 <sup>(1)</sup> | Ref. |      |            |
|              | 951A0065H01         | Valve, Solenoid, 1-1/2" FPT                                           | 1    |      | SV-5       |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 951A0037H16         | Strainer, 40 Mesh, 1-1/2" FPT (not incl. w/950A0021G05)               | 1    |      |            |
|              | 950A0187G01         | Kit, Valve & Regulator, 1/2" SW, w/HVE 2-1/2—16, R-22 <sup>(1)</sup>  | 1    |      |            |
|              | 951A0041H01         | Valve, Solenoid, 3/4" FPT                                             | 1    |      | SV-5       |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0069H04         | Strainer, 60 Mesh, Y-type, 3/4" SW (not incl. w/950A0187G01)          | 1    |      |            |
|              | 950A0069H22         | Gasket, Screen                                                        | 1    |      |            |
|              | 950A0069H34         | Screen only                                                           | 1    |      |            |
|              | 950A0187G02         | Kit, Valve & Regulator, 1" SW, w/MVE 12—34, R-22 <sup>(1)</sup>       | 1    |      |            |
|              | Contact Frick Parts | Valve, Solenoid, 1" SW Flange                                         | 1    |      | SV-5       |
|              | 950A0190H03         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0069H05         | Strainer, 60 Mesh, Y-type, 1" SW (not incl. w/950A0187G02)            | 1    |      |            |
|              | 950A0069H23         | Gasket, Screen                                                        | 1    |      |            |
|              | 950A0069H35         | Screen only                                                           | 1    |      |            |
|              | 950A0187G03         | Kit, Valve & Regulator, 1-1/2" SW, w/VVE 52—100, R-22 <sup>(1)</sup>  | 1    |      |            |
|              | 951A0065H01         | Valve, Solenoid, 1-1/2" FPT                                           | 1    |      | SV-5       |
|              | 950A0190H01         | Coil, Solenoid, 120V/60Hz                                             | 1    |      |            |
|              | 950A0069H07         | Strainer, 60 Mesh, Y-type, 1-1/2" SW (not incl. w/950A0187G03)        | 1    |      |            |
|              | 950A0069H25         | Gasket, Strainer                                                      | 1    |      |            |
| —4           | 954A0008H01         | Regulator, Pressure                                                   | 1    |      |            |
|              | 954A0008H02         | Element, Replacement                                                  | 1    |      |            |
| —5           | 957A0003H01         | Valve, Angle, Seal Cap, 1/4", R-717, R-22                             | 1    |      |            |
| —6           | 957A0003H02         | Valve, Angle, Seal Cap, 3/8", R-717, R-22                             | 4    |      |            |
| —7           | 990A0011H02         | Gauge, Pressure, R-717, R-22                                          | 1    |      | PI         |

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                                     | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------------------------------|------|------|------------|
| —8           | 531A0139H01 | Well, Standard TX Valve                                         | 1    |      |            |
| —9           | 954A0050H01 | Valve, Therm. Exp., R-717, DAE-1.0 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0050H02 | Valve, Therm. Exp., R-717, DAE-2.5 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0050H03 | Valve, Therm. Exp., R-717, DAE-5.0 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0050H04 | Valve, Therm. Exp., R-717, DAE-7.5 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 959A0089H03 | Gasket, Flange, for DAE                                         | 2    | —    |            |
|              | 954A0010H20 | Element, Power, for DAE                                         | 1    | A    |            |
|              | 954A0050H05 | Valve, Therm. Exp., R-717, AAE-8.9 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0050H06 | Valve, Therm. Exp., R-717, AAE-13.3 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 954A0050H07 | Valve, Therm. Exp., R-717, AAE-22.3 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 954A0050H08 | Valve, Therm. Exp., R-717, AAE-33.4 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 954A0050H09 | Valve, Therm. Exp., R-717, AAE-44.6 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 959A0089H02 | Gasket, Flange, for AAE                                         | 2    | —    |            |
|              | 954A0010H30 | Element, Power, for AAE                                         | 1    | C    |            |
|              | 954A0051H01 | Valve, Therm. Exp., R-22, HVE-8.73 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0051H02 | Valve, Therm. Exp., R-22, HVE-19.5 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0051H03 | Valve, Therm. Exp., R-22, HVE-36.7 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0051H04 | Valve, Therm. Exp., R-22, HVE-53.1 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 959A0089H03 | Gasket, Flange, for HVE                                         | 2    | —    |            |
|              | 959A0089H04 | Gasket, Adaptor Ring, for HVE                                   | 2    | —    |            |
|              | 954A0012H20 | Element, Power, for HVE                                         | 1    | A    |            |
|              | 954A0051H06 | Valve, Therm. Exp., R-22, MVE-81.3 lbs/min cap. <sup>(2)</sup>  | 1    | A    | TX         |
|              | 954A0051H07 | Valve, Therm. Exp., R-22, MVE-129.0 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 959A0089H02 | Gasket, Flange, for MVE                                         | 2    | —    |            |
|              | 954A0012H30 | Element, Power, for MVE                                         | 1    | A    |            |
|              | 954A0051H08 | Valve, Therm. Exp., R-22, VVE-197.0 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 959A0089H02 | Gasket, Flange, for VVE-52                                      | 2    | —    |            |
|              | 954A0051H09 | Valve, Therm. Exp., R-22, VVE-276.0 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 954A0051H10 | Valve, Therm. Exp., R-22, VVE-378.0 lbs/min cap. <sup>(2)</sup> | 1    | A    | TX         |
|              | 959A0089H01 | Gasket, Flange, for VVE 70 & 100                                | 2    | —    |            |
|              | 954A0012H30 | Element, Power, for VVE                                         | 1    | A    |            |
| —10          | 951A0053G01 | Solenoid Valve, 3-Way, R-717, R-22 (Plus Fittings)              | 1    |      | SV-7       |
|              | 951A0053H01 | Solenoid Valve, Less Coil (Plus Fittings)                       | 1    |      |            |
|              | 951A0054H01 | Coil, 120V                                                      | 1    |      |            |
|              | 951A0053G11 | Repair Kit consisting of:                                       | 1    |      |            |
|              | 951A0053G01 | Assy., Valve, Solenoid, 3-Way                                   | 1    |      |            |
|              | 944A0117H01 | Fitting, Connector, Female                                      | 2    |      |            |
|              | 951A0057G01 | Solenoid Valve, 3-Way, R-22                                     | 1    |      | SV-7       |
|              | 951A0057H01 | Solenoid Valve, Less Coil                                       | 1    |      |            |
|              | 951A0054H01 | Coil, 120V                                                      | 1    |      |            |
| —11          | 951A0020H01 | Solenoid Valve, R-717, R-22                                     | 1    |      | SV-10      |
|              | 951A0020H11 | Coil, Solenoid, 120V                                            | 1    |      |            |
| —12          | 959A0089H01 | Gasket, Flange, VVE 70-100                                      | 2    |      |            |
|              | 959A0089H02 | Gasket, Flange, AAE, MVE & VVE 52-60                            | 2    |      |            |
|              | 959A0089H03 | Gasket, Flange, DAE & HVE 2-20                                  | 2    |      |            |
|              | 959A0089H04 | Gasket, Flange, HVE 2-20                                        | 2    |      |            |

(1) Solenoid Valve and Strainer are determined by which TX Valve is used. For proper ordering of Liquid Injection components, refer to Thermal Expansion Valve nameplate for size and model designation. Note that Kit numbers are for identification purposes, and are not used for ordering. Early kits use NPT connections, while later kits use socket weld connections.

(2) Internal Replacement Parts Kits are available for the 954A0050 and 954A0051 TX Valve. Contact Frick Parts Dept.

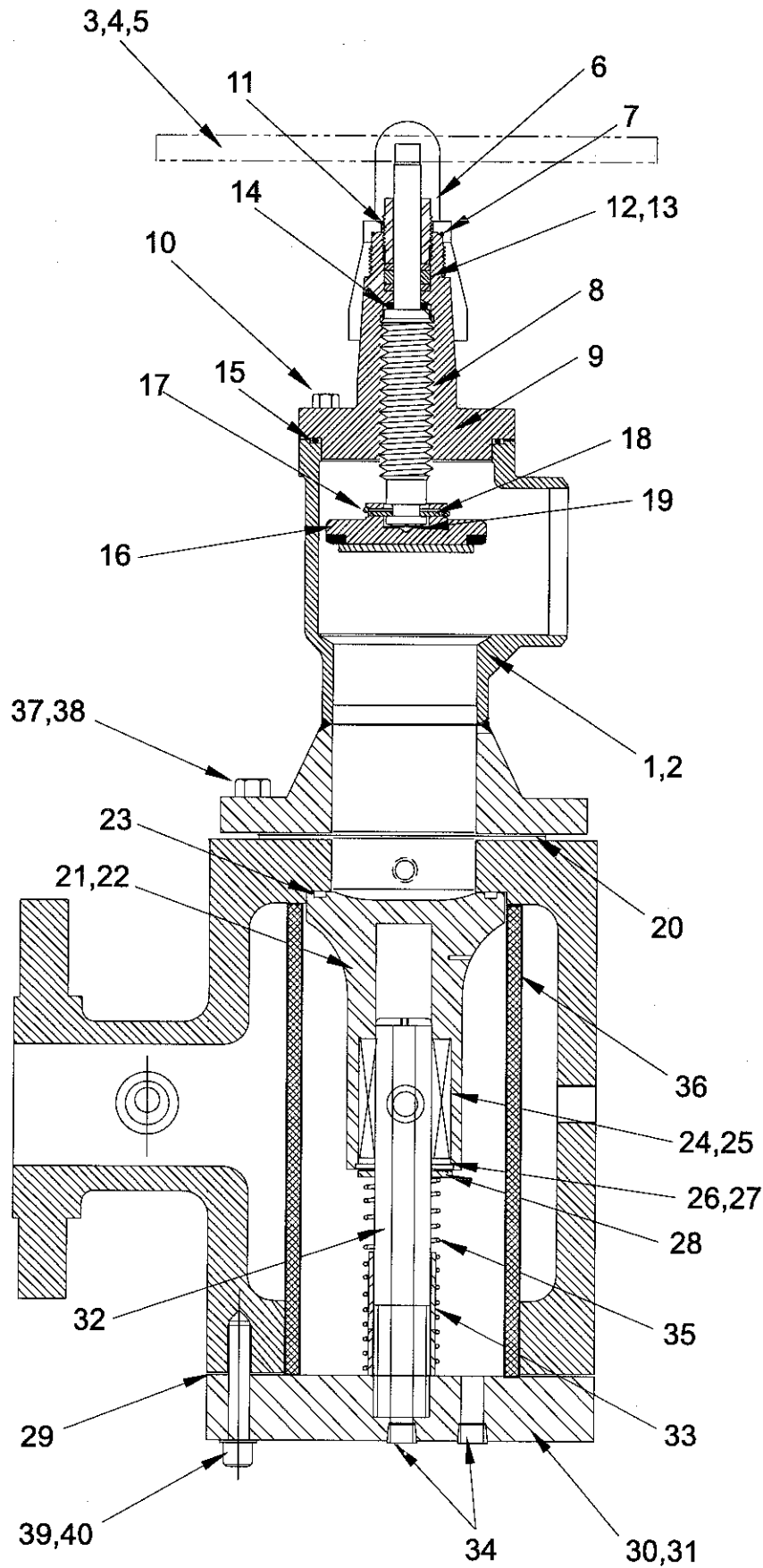


Figure 11. 4" Multivalve

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------|------|------|---------------|
| 11—             | 535D0402G01    | Assembly, Multivalve, 4", 150 PSIG, HW | Ref. | B    |               |
|                 | 535D0402G02    | Assembly, Multivalve, 4", 150 PSIG, SC | Ref. | B    |               |
| —1              | 535C0232G09    | Assembly, Valve, Handwheel             | 1    |      |               |
| —2              | 535C0232G01    | Assembly, Valve, Seal Cap              | 1    |      |               |
| —3              | 581B0001H03    | Handwheel                              | 1    |      |               |
| —4              | 111Q0110110    | Capscrew                               | 1    |      |               |
| —5              | 581A0011H07    | Washer, Spring                         | 1    |      |               |
| —6              | 581C0001H09    | Seal Cap                               | 1    |      |               |
| —7              | 580A0275H02    | Gasket                                 | 1    |      |               |
| —8              | 581B0030H03    | Stem                                   | 1    |      |               |
| —9              | 581C0087C03    | Bonnet                                 | 1    |      |               |
| —10             | 901A0047A05    | Capscrew                               | 4    |      |               |
| —11             | 581B0032H01    | Packing Nut                            | 1    |      |               |
| —12             | 959A0055H12    | Packing Ring, Split                    | 2    |      |               |
| —13             | 959A0056H12    | Packing Ring, Center                   | 1    |      |               |
| —14             | 581B0033H02    | Seal, Backseat                         | 1    |      |               |
| —15             | 959A0022H06    | Gasket, Bonnet (original)              | 1    |      |               |
|                 | 980A0014H59    | O-Ring, Bonnet (current)               | 1    |      |               |
| —16             | 581C0046G06    | Assembly, Button                       | 1    |      |               |
| —17             | 580A0096H01    | Retainer Ring                          | 1    |      |               |
| —18             | 580A0090H02    | Dowel Pin                              | 4    |      |               |
| —19             | 581A0022H02    | Washer, Spring                         | 1    |      |               |
| —20             | 959A0062H01    | Gasket, Body, 150/300 PSIG             | 1    |      |               |
| —21             | 580B0240G02    | Assembly, Sliding Button               | 1    |      |               |
| —22             | 580C0254C02    | Sliding Button                         | 1    |      |               |
| —23             | 111Q0452526    | O-Ring                                 | 1    |      |               |
| —24             | 580B0242G01    | Assembly, Bearing                      | 1    |      |               |
| —25             | 580A0235H01    | Liner, TFE                             | 1    |      |               |
| —26             | 111Q0452524    | Ring, Retaining                        | 1    |      |               |
| —27             | 111Q0940169    | Washer, Flat                           | 1    |      |               |
| —28             | 111Q0940163    | Washer, Flat                           | 1    |      |               |
| —29             | 580B0241H01    | Gasket, End Cover                      | 1    |      |               |
| —30             | 580B0246G02    | Assembly, End Cover                    | 1    |      |               |
| —31             | 580B0271H01    | End Cover                              | 1    |      |               |
| —32             | 580B0273H02    | Shaft, Check Valve                     | 1    |      |               |
| —33             | 580A0231H01    | Spacer, Check Valve                    | 1    |      |               |
| —34             | 944A0008H02    | Pipe Plug                              | 2    |      |               |
| —35             | 580A0226H01    | Spring                                 | 1    |      |               |
| —36             | 580C0255H02    | Strainer                               | 1    |      |               |
| —37             | 901A0046A04    | Capscrew, 150 PSIG                     | 8    |      |               |
|                 | 901A0046D04    | Capscrew, 300 PSIG                     | 8    |      |               |
| —38             | 111Q0940022    | Lockwasher, 150/300 PSIG               | 8    |      |               |
| —39             | 111Q0740666    | Capscrew                               | 12   |      |               |
| —40             | 111Q0940019    | Lockwasher                             | 12   |      |               |

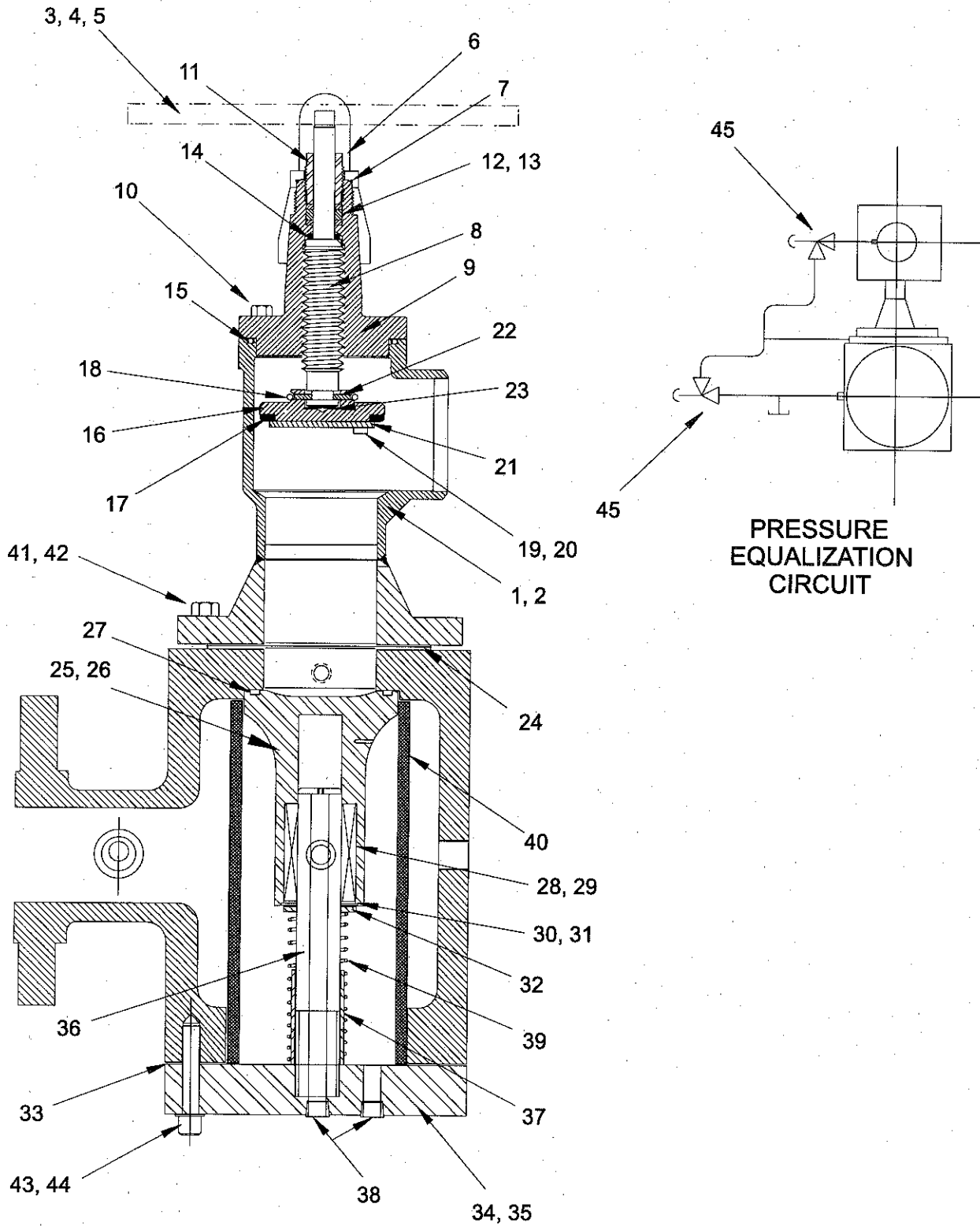


Figure 12. 5"—8" Multivalve

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------|------|------|---------------|
| 12—             | 535D0403G01    | Assembly, Multivalve, 5", 150 PSIG, HW | Ref. | B    |               |
|                 | 535D0403G02    | Assembly, Multivalve, 5", 150 PSIG, SC | Ref. | B    |               |
| —1              | 535C0232G10    | Assembly, Valve, Handwheel             | 1    |      |               |
| —2              | 535C0232G02    | Assembly, Valve, Seal Cap              | 1    |      |               |
| —3              | 581B0001H04    | Handwheel                              | 1    |      |               |
| —4              | 581A0010H03    | Capscrew                               | 1    |      |               |
| —5              | 111Q0940048    | Washer, Spring                         | 1    |      |               |
| —6              | 581C0001H04    | Seal Cap                               | 1    |      |               |
| —7              | 580A0275H03    | Gasket, Seal Cap                       | 1    |      |               |
| —8              | 581C0037H01    | Stem                                   | 1    |      |               |
| —9              | 581C0048C01    | Bonnet                                 | 1    |      |               |
| —10             | 111Q0110603    | Capscrew                               | 6    |      |               |
| —11             | 581A0024H01    | Packing Nut                            | 1    |      |               |
| —12             | 959A0055H06    | Packing Ring, Split                    | 2    |      |               |
| —13             | 959A0056H06    | Packing Ring, Center                   | 1    |      |               |
| —14             | 581A0023H01    | Seal, Backseat                         | 1    |      |               |
| —15             | 959A0022H07    | Gasket, Bonnet (original)              | 1    |      |               |
|                 | 980A0014H67    | O-ring, Bonnet (current)               | 1    |      |               |
| —16             | 581C0049C01    | Button                                 | 1    |      |               |
| —17             | 581A0040H01    | Button Seal                            | 1    |      |               |
| —18             | 580A0096H01    | Retainer Ring                          | 1    |      |               |
| —19             | 901A0043B03    | Capscrew                               | 3    |      |               |
| —20             | 111Q0940012    | Lockwasher                             | 4    |      |               |
| —21             | 581A0016H01    | Retaining Plate                        | 1    |      |               |
| —22             | 580A0090H02    | Dowel Pin                              | 8    |      |               |
| —23             | 580A0095H01    | Spring Disk                            | 1    |      |               |
| —24             | 959A0062H02    | Gasket, Body, 150/300 PSIG             | 1    |      |               |
| —25             | 580B0240G04    | Assembly, Sliding Button               | 1    |      |               |
| —26             | 580C0252C02    | Sliding Button                         | 1    |      |               |
| —27             | 111Q0452527    | O-ring                                 | 1    |      |               |
| —28             | 580B0242G01    | Assembly, Bearing                      | 1    |      |               |
| —29             | 580A0235H01    | Liner, TFE                             | 1    |      |               |
| —30             | 111Q0452524    | Ring, Retaining                        | 1    |      |               |
| —31             | 111Q0940169    | Washer, Flat                           | 1    |      |               |
| —32             | 111Q0940163    | Washer, Flat                           | 1    |      |               |
| —33             | 959A0061H02    | Gasket, End Cover                      | 1    |      |               |
| —34             | 580B0246G04    | Assembly, End Cover                    | 1    |      |               |
| —35             | 580B0272H01    | End Cover                              | 1    |      |               |
| —36             | 580B0273H04    | Shaft, Check Valve                     | 1    |      |               |
| —37             | 580A0231H02    | Spacer, Check Valve                    | 1    |      |               |
| —38             | 944A0008H02    | Pipe Plug                              | 2    |      |               |
| —39             | 580A0227H01    | Spring                                 | 1    |      |               |
| —40             | 580C0250H02    | Strainer                               | 1    |      |               |
| —41             | 901A0047A05    | Capscrew, 150 PSIG                     | 8    |      |               |
|                 | 901A0047D05    | Capscrew, 300 PSIG                     | 8    |      |               |
| —42             | 111Q0940026    | Lockwasher, 150/300 PSIG               | 8    |      |               |
| —43             | 111Q0740666    | Capscrew                               | 12   |      |               |
| —44             | 111Q0940019    | Lockwasher                             | 12   |      |               |

**RWB II PLUS ROTARY SCREW COMPRESSOR UNIT**  
**SERVICE PARTS LIST**

**Frick**

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------|------|------|---------------|
| 12—             | 535D0404G01    | Assembly, Multivalve, 6", 150 PSIG, HW | Ref. | B    |               |
| —1              | 535D0404G02    | Assembly, Multivalve, 6", 150 PSIG, SC | Ref. | B    |               |
| —2              | 535C0232G11    | Assembly, Valve, Handwheel             | 1    |      |               |
| —3              | 535C0232G03    | Assembly, Valve, Seal Cap              | 1    |      |               |
| —4              | 581B0001H04    | Handwheel                              | 1    |      |               |
| —5              | 581A0010H03    | Capscrew                               | 1    |      |               |
| —6              | 581A0011H02    | Washer, Spring                         | 1    |      |               |
| —7              | 581C0001H04    | Seal Cap                               | 1    |      |               |
| —8              | 580A0275H03    | Gasket, Seal Cap                       | 1    |      |               |
| —9              | 581C0045H01    | Stem                                   | 1    |      |               |
| —10             | 581D0033C01    | Bonnet                                 | 1    |      |               |
| —11             | 111Q0110603    | Capscrew                               | 8    |      |               |
| —12             | 581A0024H01    | Packing Nut                            | 1    |      |               |
| —13             | 959A0055H01    | Packing Ring, Split                    | 2    |      |               |
| —14             | 959A0056H01    | Packing Ring, Center                   | 1    |      |               |
| —15             | 581A0023H01    | Seal, Backseat                         | 1    |      |               |
| —16             | 959A0022H08    | Gasket, Bonnet (original)              | 1    |      |               |
| —17             | 980A0014H71    | O-ring, Bonnet (current)               | 1    |      |               |
| —18             | 580C0044C01    | Button                                 | 1    |      |               |
| —19             | 581A0040H02    | Button Seal                            | 1    |      |               |
| —20             | 580A0096H01    | Retainer Ring                          | 1    |      |               |
| —21             | 901A0043B03    | Capscrew                               | 4    |      |               |
| —22             | 111Q0940012    | Lockwasher                             | 4    |      |               |
| —23             | 581A0015H01    | Retaining Plate                        | 1    |      |               |
| —24             | 580A0090H02    | Dowel Pin                              | 8    |      |               |
| —25             | 580A0095H01    | Spring Disk                            | 1    |      |               |
| —26             | 959A0062H03    | Gasket, Body, 150/300 PSIG             | 1    |      |               |
| —27             | 580B0240G04    | Assembly, Sliding Button               | 1    |      |               |
| —28             | 580C0252C02    | Sliding Button                         | 1    |      |               |
| —29             | 111Q0452527    | O-ring                                 | 1    |      |               |
| —30             | 580B0242G01    | Assembly, Bearing                      | 1    |      |               |
| —31             | 580A0235H01    | Liner, TFE                             | 2    |      |               |
| —32             | 111Q0452524    | Retaining Ring                         | 1    |      |               |
| —33             | 111Q0940169    | Washer, Flat                           | 1    |      |               |
| —34             | 111Q0940163    | Washer, Flat                           | 1    |      |               |
| —35             | 959A0061H02    | Gasket, End Cover                      | 1    |      |               |
| —36             | 580B0246G04    | Assembly, End Cover                    | 1    |      |               |
| —37             | 580B0272H01    | End Cover                              | 1    |      |               |
| —38             | 580B0273H04    | Shaft, Check Valve                     | 1    |      |               |
| —39             | 580A0231H02    | Spacer, Check Valve                    | 1    |      |               |
| —40             | 944A0008H02    | Pipe Plug                              | 2    |      |               |
| —41             | 580A0227H01    | Spring                                 | 1    |      |               |
| —42             | 580C0250H02    | Strainer                               | 1    |      |               |
| —43             | 901A0047A05    | Capscrew, 150 PSIG                     | 8    |      |               |
| —44             | 901A0047D05    | Capscrew, 300 PSIG                     | 8    |      |               |
| —45             | 111Q0940026    | Lockwasher, 150/300 PSIG               | 8    |      |               |
| —46             | 111Q0740666    | Capscrew                               | 12   |      |               |
| —47             | 111Q0940019    | Lockwasher                             | 12   |      |               |

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------|------|------|---------------|
| 12—             | 535D0405G01    | Assembly, Multivalve, 8", 150 PSIG, HW | Ref. | B    |               |
|                 | 535D0405G02    | Assembly, Multivalve, 8", 150 PSIG, SC | Ref. | B    |               |
| —1              | 535C0232G12    | Assembly, Valve, Handwheel             | 1    |      |               |
| —2              | 535C0232G04    | Assembly, Valve, Seal Cap              | 1    |      |               |
| —3              | 581B0001H05    | Handwheel                              | 1    |      |               |
| —4              | 581A0010H04    | Capscrew                               | 1    |      |               |
| —5              | 581A0011H03    | Washer, Spring                         | 1    |      |               |
| —6              | 581C0001H05    | Seal Cap                               | 1    |      |               |
| —7              | 580A0275H04    | Gasket, Seal Cap                       | 1    |      |               |
| —8              | 581C0042H01    | Stem                                   | 1    |      |               |
| —9              | 581D0032C01    | Bonnet                                 | 1    |      |               |
| —10             | 111Q0110603    | Capscrew                               | 8    |      |               |
| —11             | 581B0045H01    | Packing Nut                            | 1    |      |               |
| —12             | 959A0055H07    | Packing Ring, Split                    | 2    |      |               |
| —13             | 959A0056H07    | Packing Ring, Center                   | 8    |      |               |
| —14             | 581A0012H01    | Seal, Backseat                         | 1    |      |               |
| —15             | 959A0022H09    | Gasket, Bonnet (original)              | 1    |      |               |
|                 | 980A0014H80    | O-Ring, Bonnet (current)               | 1    |      |               |
| —16             | 581C0043C01    | Button                                 | 1    |      |               |
| —17             | 581A0013H03    | Button Seal                            | 1    |      |               |
| —18             | 580A0108H01    | Retaining Washer                       | 1    |      |               |
| —19             | 901A0043B03    | Capscrew                               | 5    |      |               |
| —20             | 111Q0940012    | Lockwasher                             | 5    |      |               |
| —21             | 581A0014H01    | Retaining Plate                        | 1    |      |               |
| —22             | 580A0192H01    | Dowel Pin                              | 8    |      |               |
| —23             | 580A0109H01    | Disk, Spring                           | 1    |      |               |
| —24             | 959A0062H04    | Gasket, Body, 150/300 PSIG             | 1    |      |               |
| —25             | 580B0240G06    | Assembly, Sliding Button               | 1    |      |               |
| —26             | 580C0251C02    | Sliding Button                         | 1    |      |               |
| —27             | 111Q0452528    | O-ring                                 | 1    |      |               |
| —28             | 580B0242G01    | Assembly, Bearing                      | 1    |      |               |
| —29             | 580A0235H01    | Liner, TFE                             | 2    |      |               |
| —30             | 111Q0452524    | Retaining Ring                         | 1    |      |               |
| —31             | 111Q0940169    | Washer, Flat                           | 1    |      |               |
| —32             | 111Q0940163    | Washer, Flat                           | 1    |      |               |
| —33             | 580B0241H03    | Gasket, End Cover                      | 1    |      |               |
| —34             | 580B0246G06    | Assembly, End Cover                    | 1    |      |               |
| —35             | 580C0300H01    | End Cover                              | 1    |      |               |
| —36             | 580B0273H06    | Shaft, Check Valve                     | 1    |      |               |
| —37             | 580A0231H03    | Spacer, Check Valve                    | 1    |      |               |
| —38             | 944A0008H02    | Pipe Plug                              | 2    |      |               |
| —39             | 580A0228H01    | Spring                                 | 1    |      |               |
| —40             | 580C0253H02    | Strainer                               | 1    |      |               |
| —41             | 901A0047A06    | Capscrew, 150 PSIG                     | 8    |      |               |
|                 | 901A0047D06    | Capscrew, 300 PSIG                     | 8    |      |               |
| —42             | 111Q0940026    | Lockwasher, 150/300 PSIG               | 8    |      |               |
| —43             | 111Q0740052    | Capscrew                               | 12   |      |               |
| —44             | 111Q0940022    | Lockwasher                             | 12   |      |               |
| —45             | 957A0003H02    | Valve, Angle                           | 2    |      |               |

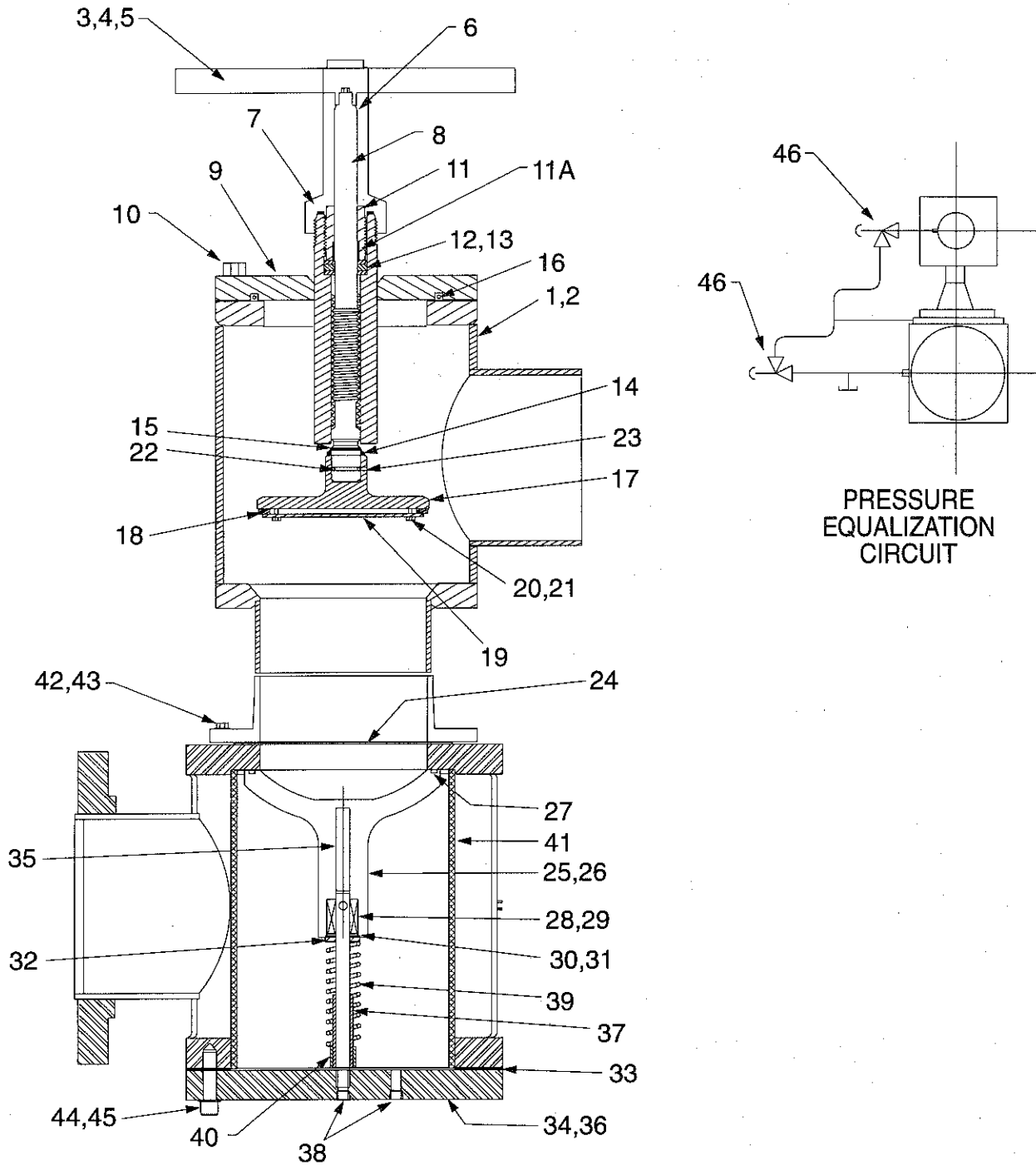


Figure 13. 10" and 14" Multivalve

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                             | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|-----------------------------------------|------|------|---------------|
| 13—             | 535D0406G01    | Assembly, Multivalve, 10", 150 PSIG, HW | Ref. | B    |               |
|                 | 535D0406G02    | Assembly, Multivalve, 10", 150 PSIG, SC | Ref. | B    |               |
| —1              | 535C0232G13    | Assembly, Valve, Handwheel              | 1    |      |               |
| —2              | 535C0232G15    | Assembly, Valve, Seal Cap               | 1    |      |               |
| —3              | 581B0001H06    | Handwheel                               | 1    |      |               |
| —4              | 901A0045A03    | Capscrew                                | 1    |      |               |
| —5              | 581A0011H03    | Washer, Spring                          | 2    |      |               |
| —6              | 581C0050H01    | Seal Cap                                | 1    |      |               |
| —7              | 580A0275H05    | Gasket, Seal Cap                        | 1    |      |               |
| —8              | 581B0009H01    | Stem                                    | 1    |      |               |
| —9              | 581C0074G01    | Bonnet                                  | 1    |      |               |
| —10             | 901A0046A05    | Capscrew                                | 12   |      |               |
| —11             | 581B0066H01    | Packing Nut                             | 1    |      |               |
| —11A            | 581A0042H01    | Packing Nut Bushing                     | 1    |      |               |
| —12             | 581A0046H01    | Ring, Bushing End                       | 2    |      |               |
| —13             | 959A0076H01    | Ring, Center Packing                    | 1    |      |               |
| —14             | 581A0020H01    | Seal, Backseat                          | 1    |      |               |
| —15             | 581A0044H01    | Ring, Retaining                         | 1    |      |               |
| —16             | 581A0007H01    | Gasket, Bonnet (original)               | 1    |      |               |
|                 | 980A0014K29    | O-ring, Bonnet (current)                | 1    |      |               |
| —17             | 581C0072G01    | Button                                  | 1    |      |               |
| —18             | 581A0040H04    | Button Seal                             | 1    |      |               |
| —19             | 581A0017H01    | Retaining Plate                         | 1    |      |               |
| —20             | 111Q0110535    | Capscrew                                | 6    |      |               |
| —21             | 111Q0940012    | Lockwasher                              | 6    |      |               |
| —22             | 581A0001H04    | Ball Bearing                            | 16   |      |               |
| —23             | 581B0003H06    | Retaining Clip                          | 1    |      |               |
| —24             | 959A0062H05    | Gasket, Body, 150/300 PSIG              | 1    |      |               |
| —25             | 580B0240G07    | Assembly, Sliding Button                | 1    |      |               |
| —26             | 580C0262C01    | Sliding Button                          | 1    |      |               |
| —27             | 980A0014H80    | O-ring                                  | 1    |      |               |
| —28             | 580B0243G01    | Assembly, Bearing                       | 1    |      |               |
| —29             | 580A0235H03    | Liner, TFE                              | 2    |      |               |
| —30             | 111Q0452525    | Retaining Ring                          | 1    |      |               |
| —31             | 111Q0940170    | Washer, Flat                            | 1    |      |               |
| —32             | 111Q0940164    | Washer, Flat                            | 1    |      |               |
| —33             | 959A0061H04    | Gasket, End Cover                       | 1    |      |               |
| —34             | 580B0246G07    | Assembly, End Cover                     | 1    |      |               |
| —35             | 580B0273H07    | Shaft, Check Valve                      | 1    |      |               |
| —36             | 580C0301H01    | End Cover                               | 1    |      |               |
| —37             | 580A0232H01    | Spacer, Check Valve                     | 1    |      |               |
| —38             | 944A0008H02    | Pipe Plug                               | 2    |      |               |
| —39             | 580A0229H01    | Spring                                  | 1    |      |               |
| —40             | 580A0234H01    | Spring Adjuster                         | 1    |      |               |
| —41             | 580C0268H01    | Strainer                                | 1    |      |               |
| —42             | 901A0048A06    | Capscrew, 150 PSIG                      | 12   |      |               |
|                 | 901A0048D06    | Capscrew, 300 PSIG                      | 12   |      |               |
| —43             | 111Q0940028    | Lockwasher, 150/300 PSIG                | 12   |      |               |
| —44             | 111Q0740822    | Capscrew                                | 16   |      |               |
| —45             | 111Q0940028    | Lockwasher                              | 16   |      |               |
| —46             | 957A0003H02    | Valve, Angle                            | 2    |      |               |

**RWB II PLUS ROTARY SCREW COMPRESSOR UNIT**  
**SERVICE PARTS LIST**



| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                            | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|--------------------------------------------------------|------|------|---------------|
| 13—             | 535D0460G01    | Assembly, Multivalve, 5", 150 PSIG, HW                 | Ref. | B    |               |
|                 | 535D0460G02    | Assembly, Multivalve, 5", 150 PSIG, SC                 | Ref. | B    |               |
| —1              | 535C0232G14    | Assembly, Valve, Handwheel                             | 1    |      |               |
| —2              | 535C0232G16    | Assembly, Valve, Seal Cap                              | 1    |      |               |
| —3              | 581B0001H07    | Handwheel                                              | 1    |      |               |
| —4              | 901A0046H01    | Capscrew                                               | 1    |      |               |
| —5              | 581A0011H04    | Washer, Spring                                         | 1    |      |               |
| —6              | 581C0051H01    | Seal Cap                                               | 1    |      |               |
| —7              | 580A0275H06    | Gasket                                                 | 1    |      |               |
| —8              | 581B0010H01    | Stern                                                  | 1    |      |               |
| —9              | 581C0078H01    | Bonnet                                                 | 1    |      |               |
| —10             | 901A0046A05    | Capscrew                                               | 16   |      |               |
| —11             | 581B0067H01    | Packing Nut                                            | 1    |      |               |
| —11A            | 581A0043H01    | Packing Nut Bushing                                    | 1    |      |               |
| —12             | 581A0047H01    | Ring, Bushing End                                      | 2    |      |               |
| —13             | 959A0076H02    | Ring, Center Packing                                   | 1    |      |               |
| —14             | 581A0030H01    | Seal, Backseat                                         | 1    |      |               |
| —15             | 581A0044H02    | Retaining Ring                                         | 1    |      |               |
| —16             | 980A0014K33    | O-ring, Bonnet                                         | 1    |      |               |
| —17             | 581C0071G01    | Button                                                 | 1    |      |               |
| —18             | 581A0040H05    | Button Seal                                            | 1    |      |               |
| —19             | 581A0019H01    | Retaining Plate                                        | 1    |      |               |
| —20             | 111Q0110535    | Capscrew                                               | 6    |      |               |
| —21             | 111Q0940012    | Lockwasher                                             | 6    |      |               |
| —22             | 581A0001H04    | Ball Bearing                                           | 18   |      |               |
| —23             | 581B0003H07    | Retaining Clip                                         | 1    |      |               |
| —24             | 959A0038H06    | Gasket, Body                                           | 1    |      |               |
| —25             | 580B0240G08    | Assembly, Sliding Button                               | 1    |      |               |
| —26             | 580C0264C01    | Sliding Button                                         | 1    |      |               |
| —27             | 111Q0452530    | O-ring                                                 | 1    |      |               |
| —28             | 580B0243G01    | Assembly, Bearing                                      | 1    |      |               |
| —29             | 580A0235H03    | Liner, TFE                                             | 2    |      |               |
| —30             | 111Q0452525    | Retaining Ring                                         | 1    |      |               |
| —31             | 111Q0940170    | Washer, Flat                                           | 1    |      |               |
| —32             | 111Q0940164    | Washer, Flat                                           | 1    |      |               |
| —33             | 959A0061H05    | Gasket, End Cover                                      | 1    |      |               |
| —34             | 580B0246G08    | Assembly, End Cover                                    | 1    |      |               |
| —35             | 580B0273H08    | Shaft, Check Valve                                     | 1    |      |               |
| —36             | 580C0302H01    | End Cover                                              | 1    |      |               |
| —37             | 580A0232H02    | Spacer, Check Valve                                    | 1    |      |               |
| —38             | 944A0008H02    | Pipe Plug                                              | 2    |      |               |
| —39             | 580A0230H01    | Spring                                                 | 1    |      |               |
| —40             | 580A0234H02    | Spring Adj.                                            | 1    |      |               |
| —41             | 580C0269H01    | Strainer                                               | 1    |      |               |
| —42             | 901A0048A07    | Capscrew                                               | 12   |      |               |
| —43             | 111Q0940028    | Lockwasher                                             | 12   |      |               |
| —44             | 901A0048A07    | Capscrew                                               | 16   |      |               |
| —45             | 111Q0940028    | Lockwasher                                             | 16   |      |               |
| —46             | 580D0047G02    | Valve, Angle                                           | 2    |      |               |
|                 | NOT SHOWN:     |                                                        |      |      |               |
|                 | 535D0516G01    | Assembly, Multivalve, 14", 150 PSIG, HW (Hansen/Frick) | Ref. | —    |               |
|                 | 950A0169G01    | Assembly, Valve, Angle, Stop, 14", HW (Hansen)         | 1    |      |               |
|                 | 535D0516G02    | Assembly, Multivalve, 14", 150 PSIG, SC (Hansen/Frick) | Ref. | —    |               |
|                 | 950A0169G02    | Assembly, Valve, Angle, Stop, 14", SC (Hansen)         | 1    |      |               |

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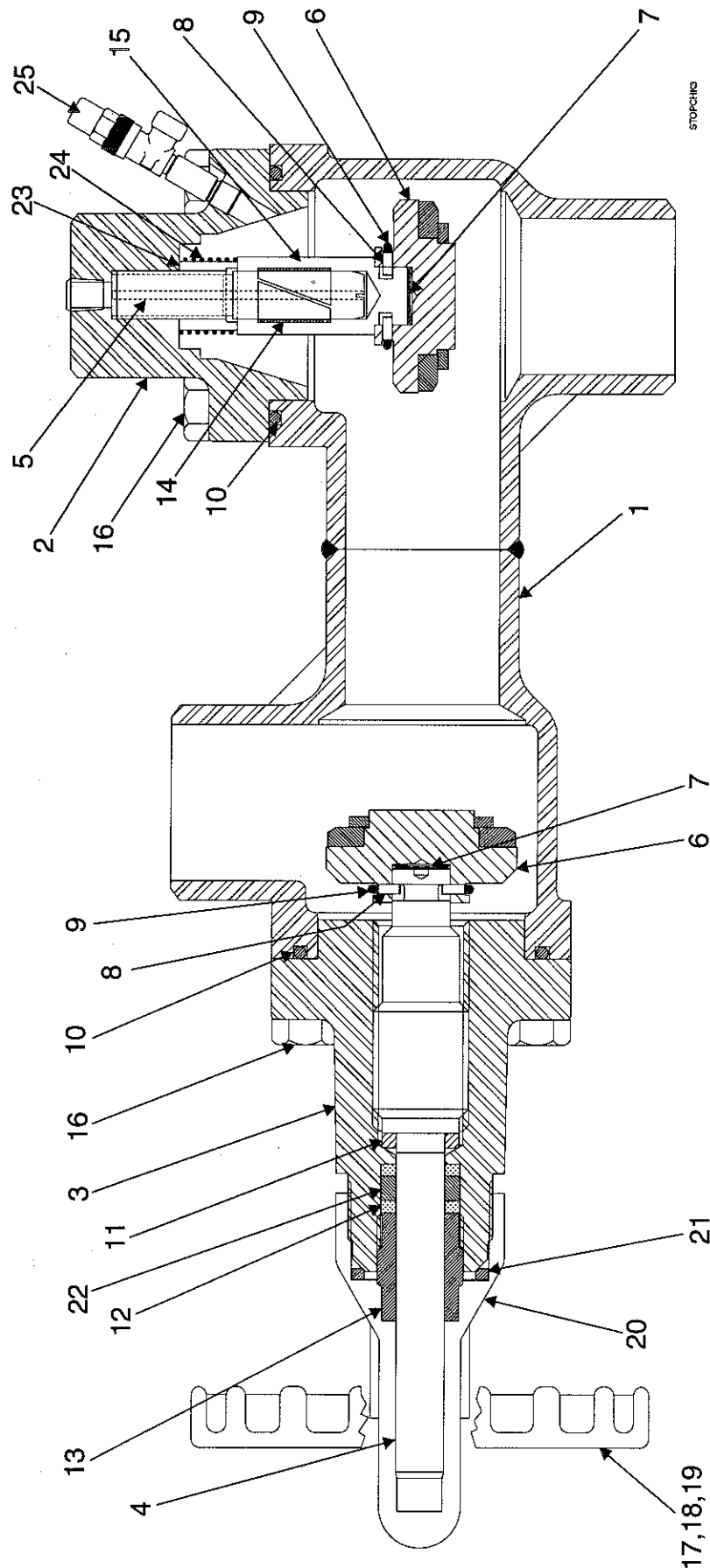


Figure 14. 3" and 4" Discharge Stop/Check Valve (Frick).

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                  | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------------|------|------|---------------|
| 14—             | 581C0107G01    | 3" Discharge Stop/Check Valve, R-717 (Frick) | Ref. | B    |               |
|                 | 581C0107G02    | 3" Discharge Stop/Check Valve, R-22 (Frick)  | Ref. | B    |               |
| —1              | 581C0110G01    | Body, Valve, 3"                              | 1    |      |               |
| —2              | 581C0104C01    | Bonnet, Check Valve                          | 1    |      |               |
| —3              | 581C0086C02    | Bonnet, Stop Valve                           | 1    |      |               |
| —4              | 581B0030H02    | Stem, Stop Valve                             | 1    |      |               |
| —5              | 581B0100H05    | Shaft, Sliding Button                        | 1    |      |               |
| —6              | 581C0046G05    | Button Assembly                              | 2    |      |               |
| —7              | 581A0022H02    | Washer, Spring                               | 2    |      |               |
| —8              | 580A0090H02    | Pin, Button                                  | 8    |      |               |
| —9              | 580A0096H01    | Ring, Retaining                              | 2    |      |               |
| —10             | 980A0014H51    | O-ring, Bonnet                               | 2    |      |               |
| —11             | 581B0033H02    | Seal, Backseat                               | 1    |      |               |
| —12             | 959A0055H12    | Ring, Packing, Split                         | 2    |      |               |
| —13             | 581B0032H01    | Nut, Packing                                 | 1    |      |               |
| —14             | 580A0235H01    | Ring, Packing, Split                         | 1    |      |               |
| —15             | 581B0052H05    | Guide Bushing, Sliding Button                | 1    |      |               |
| —16             | 901A0046A04    | Capscrew, Hex Head                           | 8    |      |               |
| —17             | 581B0001H03    | Handwheel                                    | 1    |      |               |
| —18             | 581A0011H07    | Washer, Spring                               | 1    |      |               |
| —19             | 581A0010H03    | Capscrew                                     | 1    |      |               |
| —20             | 581C0001H09    | Seal Cap                                     | 1    |      |               |
| —21             | 580A0275H02    | Gasket, Seal Cap                             | 1    |      |               |
| —22             | 959A0056H12    | Ring, Packing, Center                        | 1    |      |               |
| —23             | 580A0219H03    | Spacer, Check Valve                          | 1    |      |               |
| —24             | 580A0223H01    | Spring, Return                               | 1    |      |               |
| —25             | 957A0003H01    | Valve, Angle, SC, 1/4 FPT x 1/4 MPT          | 1    |      |               |

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**Frick**

| FIG. &<br>INDEX | ITEM<br>NUMBER | DESCRIPTION                                  | QTY. | REV. | P & I<br>REF. |
|-----------------|----------------|----------------------------------------------|------|------|---------------|
| 14—             | 581C0109G01    | 4" Discharge Stop/Check Valve, R-717 (Frick) | Ref. | B    |               |
|                 | 581C0109G02    | 4" Discharge Stop/Check Valve, R-22 (Frick)  | Ref. | B    |               |
| —1              | 581C0110G02    | Body, Valve, 4"                              | 1    |      |               |
| —2              | 581C0105C01    | Bonnet, Check Valve                          | 1    |      |               |
| —3              | 581C0087C03    | Bonnet, Stop Valve                           | 1    |      |               |
| —4              | 581B0030H03    | Stem, Stop Valve                             | 1    |      |               |
| —5              | 581B0100H04    | Shaft, Sliding Button                        | 1    |      |               |
| —6              | 581C0046G06    | Button Assembly                              | 2    |      |               |
| —7              | 581A0022H02    | Washer, Spring                               | 2    |      |               |
| —8              | 580A0090H02    | Pin, Button                                  | 8    |      |               |
| —9              | 580A0096H01    | Ring, Retaining                              | 2    |      |               |
| —10             | 980A0014H59    | O-ring, Bonnet                               | 2    |      |               |
| —11             | 581B0033H02    | Seal, Backseat                               | 1    |      |               |
| —12             | 959A0055H12    | Ring, Packing, Split                         | 2    |      |               |
| —13             | 581B0032H01    | Nut, Packing                                 | 1    |      |               |
| —14             | 581A0027H01    | Ring, Packing, Split                         | 1    |      |               |
| —15             | 581B0052H04    | Guide Bushing, Sliding Button                | 1    |      |               |
| —16             | 901A0047A05    | Capscrew, Hex Head                           | 8    |      |               |
| —17             | 581B0001H03    | Handwheel                                    | 1    |      |               |
| —18             | 581A0011H07    | Washer, Spring                               | 1    |      |               |
| —19             | 581A0010H03    | Capscrew, Hex Head                           | 1    |      |               |
| —20             | 581C0001H09    | Seal Cap                                     | 1    |      |               |
| —21             | 580A0275H02    | Gasket, Seal Cap                             | 1    |      |               |
| —22             | 959A0056H12    | Ring, Packing, Center                        | 1    |      |               |
| —23             | 580A0219H01    | Spacer, Check Valve                          | 1    |      |               |
| —24             | 580A0218H01    | Spring, Return                               | 1    |      |               |
| —25             | 957A0003H01    | Valve, Angle, SC, 1/4 FPT x 1/4 MPT          | 1    |      |               |



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**S70-200 SPL  
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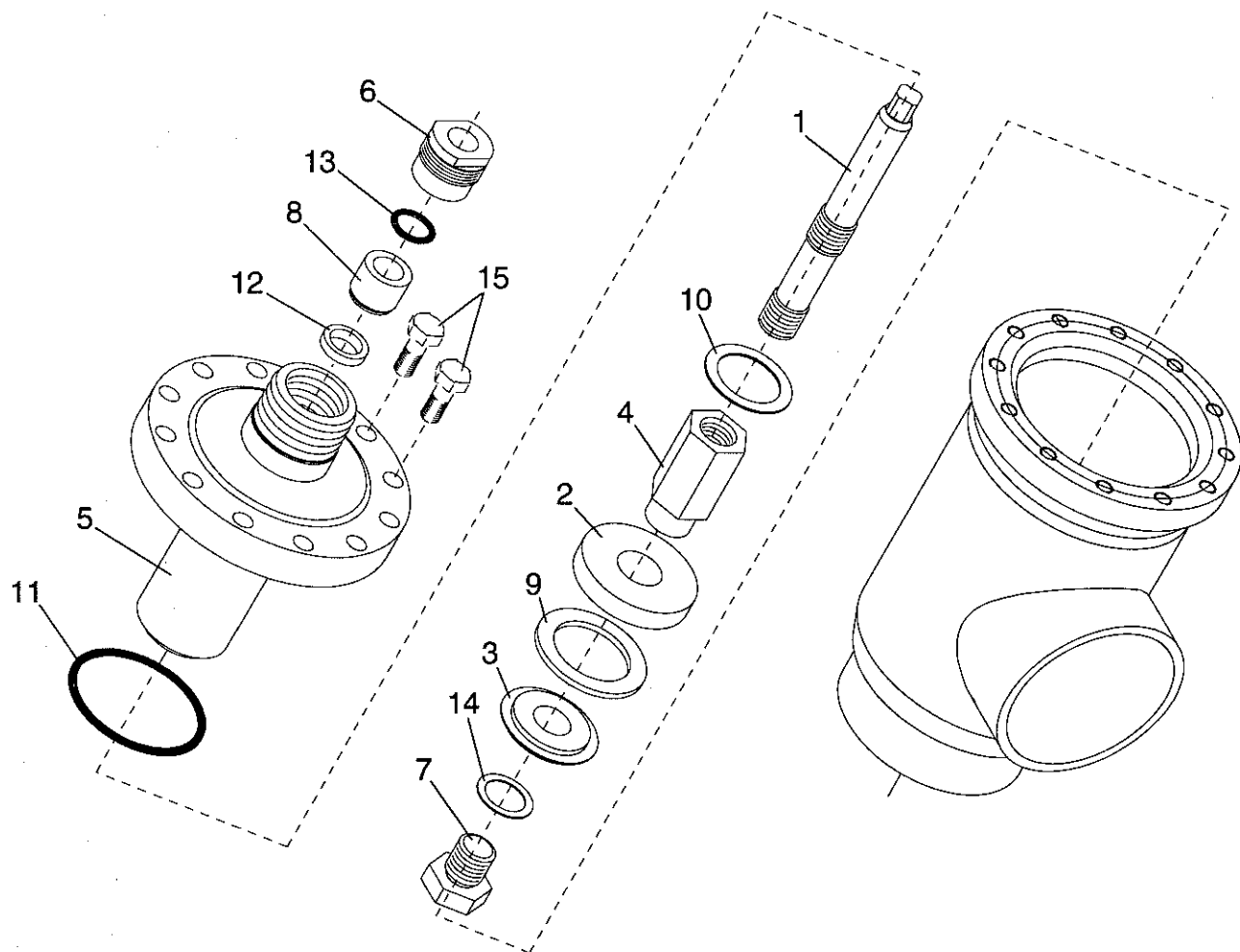
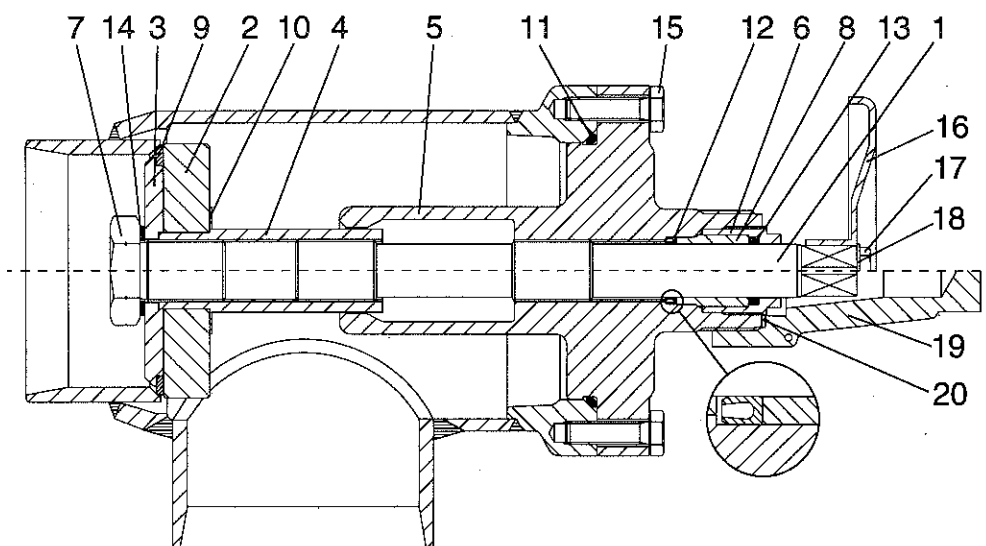


Figure 15. 3", 4", 5" and 6" Discharge Stop Valve Assembly, (Gram).

| FIG. &<br>INDEX                            | ITEM<br>NUMBER | DESCRIPTION                                    | QTY. | REV. | P & I<br>REF. |
|--------------------------------------------|----------------|------------------------------------------------|------|------|---------------|
| 15—                                        | 581C0153G01    | 3" Discharge Stop/Check Valve, HW (Gram/Frick) | Ref. | A    |               |
|                                            | 581C0153G02    | 3" Discharge Stop/Check Valve, SC (Gram/Frick) | Ref. | A    |               |
|                                            | 581C0154G01    | 4" Discharge Stop/Check Valve, HW (Gram/Frick) | Ref. | A    |               |
|                                            | 581C0154G02    | 4" Discharge Stop/Check Valve, SC (Gram/Frick) | Ref. | A    |               |
|                                            | 950A0137G01    | 3" Stop Valve, HW (Gram)                       | 1    | C    |               |
|                                            | 950A0137G02    | 3" Stop Valve, SC (Gram)                       | 1    | C    |               |
|                                            | 950A0139G01    | 4" Stop Valve, HW (Gram)                       | 1    | C    |               |
|                                            | 950A0139G02    | 4" Stop Valve, SC (Gram)                       | 1    | C    |               |
| —1                                         | 724003174GR    | Spindle, 3"                                    | 1    |      |               |
|                                            | 724003177GR    | Spindle, 4"                                    | 1    |      |               |
| —2                                         | 724003285GR    | Cone, 3"                                       | 1    |      |               |
|                                            | 724003287GR    | Cone, 4"                                       | 1    |      |               |
| —3                                         | 724003235GR    | Plate, 3"                                      | 1    |      |               |
|                                            | 724003237GR    | Plate, 4"                                      | 1    |      |               |
| —4                                         | 724003260GR    | Guide, 3"                                      | 1    |      |               |
|                                            | 724003262GR    | Guide, 4"                                      | 1    |      |               |
| —5                                         | 724001061GR    | Cover, Top, 3"                                 | 1    |      |               |
|                                            | 724001062GR    | Cover, Top, 4"                                 | 1    |      |               |
| —6                                         | 724003460GR    | Screw, Packing, 3"                             | 1    |      |               |
|                                            | 724003462GR    | Screw, Packing, 4"                             | 1    |      |               |
| —7                                         | 724003210GR    | Screw, 3"                                      | 1    |      |               |
|                                            | 724003212GR    | Screw, 4"                                      | 1    |      |               |
| —8                                         | 724003485GR    | Bushing, 3"                                    | 1    |      |               |
|                                            | 724003487GR    | Bushing, 4"                                    | 1    |      |               |
| —9                                         | 724003310GR    | Seat, 3"                                       | 1    |      |               |
|                                            | 724003312GR    | Seat, 4"                                       | 1    |      |               |
| —10                                        | 724003335GR    | Seal, 3"                                       | 1    |      |               |
|                                            | 724003337GR    | Seal, 4"                                       | 1    |      |               |
| —11                                        | 550845339GR    | O-ring, 3"                                     | 1    |      |               |
|                                            | 550840194GR    | O-ring, 4"                                     | 1    |      |               |
| —12                                        | 550940233GR    | U-sleeve, 3"                                   | 1    |      |               |
|                                            | 550940238GR    | U-sleeve, 4"                                   | 1    |      |               |
| —13                                        | 550845210GR    | O-ring, 3"                                     | 1    |      |               |
|                                            | 550845213GR    | O-ring, 4"                                     | 1    |      |               |
| —14                                        | 550657045GR    | Washer, 30 x 23 x 2, 3"                        | 1    |      |               |
|                                            | 550657046GR    | Washer, 34 x 27 x 2, 4"                        | 1    |      |               |
| —15                                        | 420098167GR    | Screw, Allen Head, SS, M10 x 35, 3"            | 10   |      |               |
|                                            | 420098167GR    | Screw, Allen Head, SS, M10 x 35, 4"            | 12   |      |               |
| —16                                        | 480012225GR    | Handwheel, 3"                                  | 1    |      |               |
|                                            | 480012300GR    | Handwheel, 4"                                  | 1    |      |               |
| —17                                        | 420092125GR    | Screw, M8 x 16, 3"                             | 1    |      |               |
|                                            | 420092202GR    | Screw, M12 x 25, 4"                            | 1    |      |               |
| —18                                        | 421611056GR    | Washer, M16, 3"                                | 1    |      |               |
|                                            | 421642107GR    | Washer, M12, 4"                                | 1    |      |               |
| —19                                        | 724003612GR    | Cap, 3"                                        | 1    |      |               |
|                                            | 724003614GR    | Cap, 4"                                        | 1    |      |               |
| —20                                        | 724003662GR    | Seal, 3"                                       | 1    |      |               |
|                                            | 724003664GR    | Seal, 4"                                       | 1    |      |               |
| Note: For Check Valve parts see Figure 14. |                |                                                |      |      |               |

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| FIG. & INDEX                               | ITEM NUMBER | DESCRIPTION                                       | QTY. | REV. | P & I REF. |
|--------------------------------------------|-------------|---------------------------------------------------|------|------|------------|
| 15—                                        | 581C0155G01 | 5" Discharge Stop/Check Valve, R-22 (Gram/Frick)  | Ref. | A    |            |
|                                            | 581C0155G02 | 5" Discharge Stop/Check Valve, R-717 (Gram/Frick) | Ref. | A    |            |
|                                            | 950A0141G01 | 5" Stop Valve, R-22 (Gram)                        | 1    | B    |            |
|                                            | 950A0141G02 | 5" Stop Valve, R-717 (Gram)                       | 1    | B    |            |
| —1                                         | 724003183GR | Spindle                                           | 1    |      |            |
| —2                                         | 724003289GR | Cone                                              | 1    |      |            |
| —3                                         | 724003239GR | Plate                                             | 1    |      |            |
| —4                                         | 724003266GR | Guide                                             | 1    |      |            |
| —5                                         | 724001063GR | Cover, Top                                        | 1    |      |            |
| —6                                         | 724003466GR | Screw, Packing                                    | 1    |      |            |
| —7                                         | 724003216GR | Screw                                             | 1    |      |            |
| —8                                         | 724003491GR | Bushing                                           | 1    |      |            |
| —9                                         | 724003314GR | Seat                                              | 1    |      |            |
| —10                                        | 724003341GR | Seal                                              | 1    |      |            |
| —11                                        | 550845354GR | O-ring                                            | 1    |      |            |
| —12                                        | 550940245GR | U-sleeve                                          | 1    |      |            |
| —13                                        | 550845217GR | O-ring                                            | 1    |      |            |
| —14                                        | 550657051GR | Washer, 44 x 32 x 2                               | 1    |      |            |
| —15                                        | 420095244GR | Screw, Allen Head, SS, M16 x 45                   | 10   |      |            |
| —16                                        | 480012400GR | Handwheel                                         | 1    |      |            |
| —17                                        | 420092241GR | Screw, M16 x 30                                   | 1    |      |            |
| —18                                        | 421642109GR | Washer                                            | 1    |      |            |
| —19                                        | 724003616GR | Cap                                               | 1    |      |            |
| —20                                        | 724003666GR | Seal                                              | 1    |      |            |
| Note: For Check Valve parts see Figure 16. |             |                                                   |      |      |            |

| FIG. &<br>INDEX                            | ITEM<br>NUMBER | DESCRIPTION                                       | QTY. | REV. | P & I<br>REF. |
|--------------------------------------------|----------------|---------------------------------------------------|------|------|---------------|
| 15—                                        | 581C0156G01    | 6" Discharge Stop/Check Valve, R-22 (Gram/Frick)  | Ref. | A    |               |
|                                            | 581C0156G02    | 6" Discharge Stop/Check Valve, R-717 (Gram/Frick) | Ref. | A    |               |
|                                            | 950A0143G01    | 6" Stop Valve, R-22 (Gram)                        | 1    | C    |               |
|                                            | 950A0143G02    | 6" Stop Valve, R-717 (Gram)                       | 1    | C    |               |
| —1                                         | 724003183GR    | Spindle                                           | 1    |      |               |
| —2                                         | 724003291GR    | Cone                                              | 1    |      |               |
| —3                                         | 724003241GR    | Plate                                             | 1    |      |               |
| —4                                         | 724003266GR    | Guide                                             | 1    |      |               |
| —5                                         | 724001064GR    | Cover, Top                                        | 1    |      |               |
| —6                                         | 724003466GR    | Screw, Packing                                    | 1    |      |               |
| —7                                         | 724003216GR    | Screw                                             | 1    |      |               |
| —8                                         | 724003491GR    | Bushing                                           | 1    |      |               |
| —9                                         | 724003316GR    | Seat                                              | 1    |      |               |
| —10                                        | 724003341GR    | Seal                                              | 1    |      |               |
| —11                                        | 550840252GR    | O-ring                                            | 1    |      |               |
| —12                                        | 550940245GR    | U-sleeve                                          | 1    |      |               |
| —13                                        | 550845217GR    | O-ring                                            | 1    |      |               |
| —14                                        | 550657051GR    | Washer, 44 x 32 x 2                               | 1    |      |               |
| —15                                        | 420048382GR    | Screw, Allen Head, SS, M16 x 55                   | 12   |      |               |
| —16                                        | 480012400GR    | Handwheel                                         | 1    |      |               |
| —17                                        | 420092241GR    | Screw, M16 x 30                                   | 1    |      |               |
| —18                                        | 421642109GR    | Washer                                            | 1    |      |               |
| —19                                        | 724003616GR    | Cap                                               | 1    |      |               |
| —20                                        | 724003666GR    | Seal                                              | 1    |      |               |
| Note: For Check Valve parts see Figure 16. |                |                                                   |      |      |               |

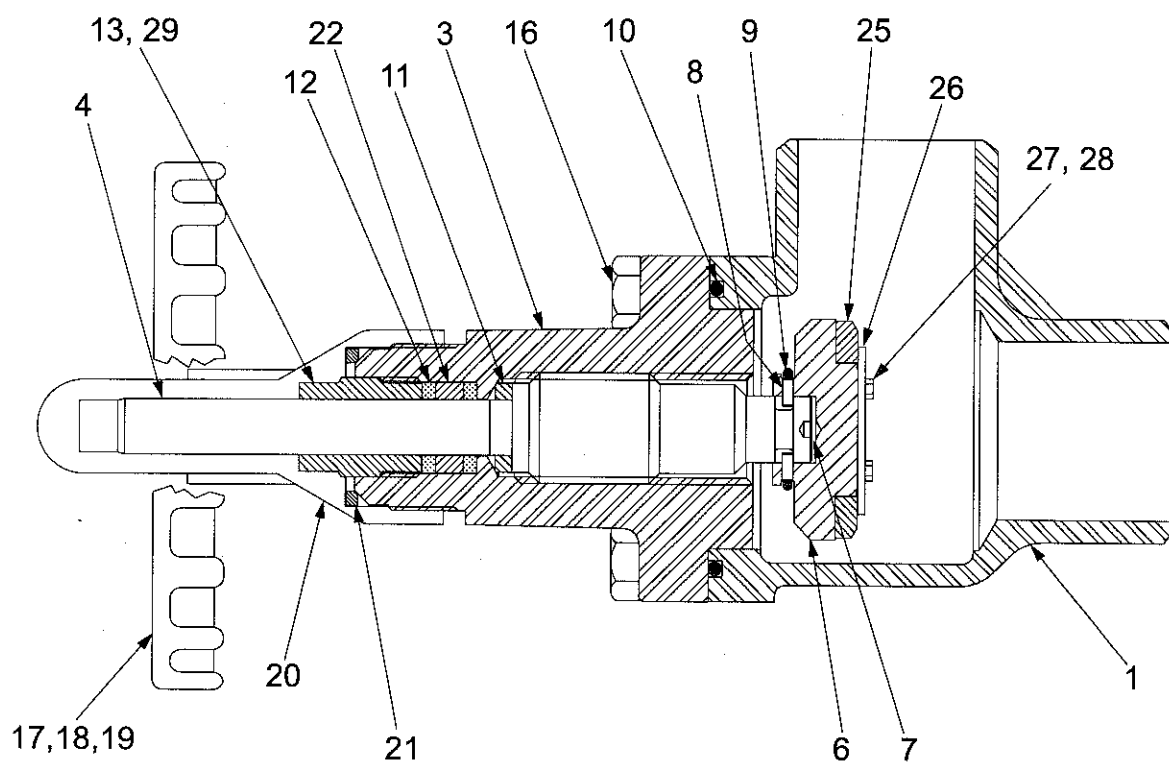
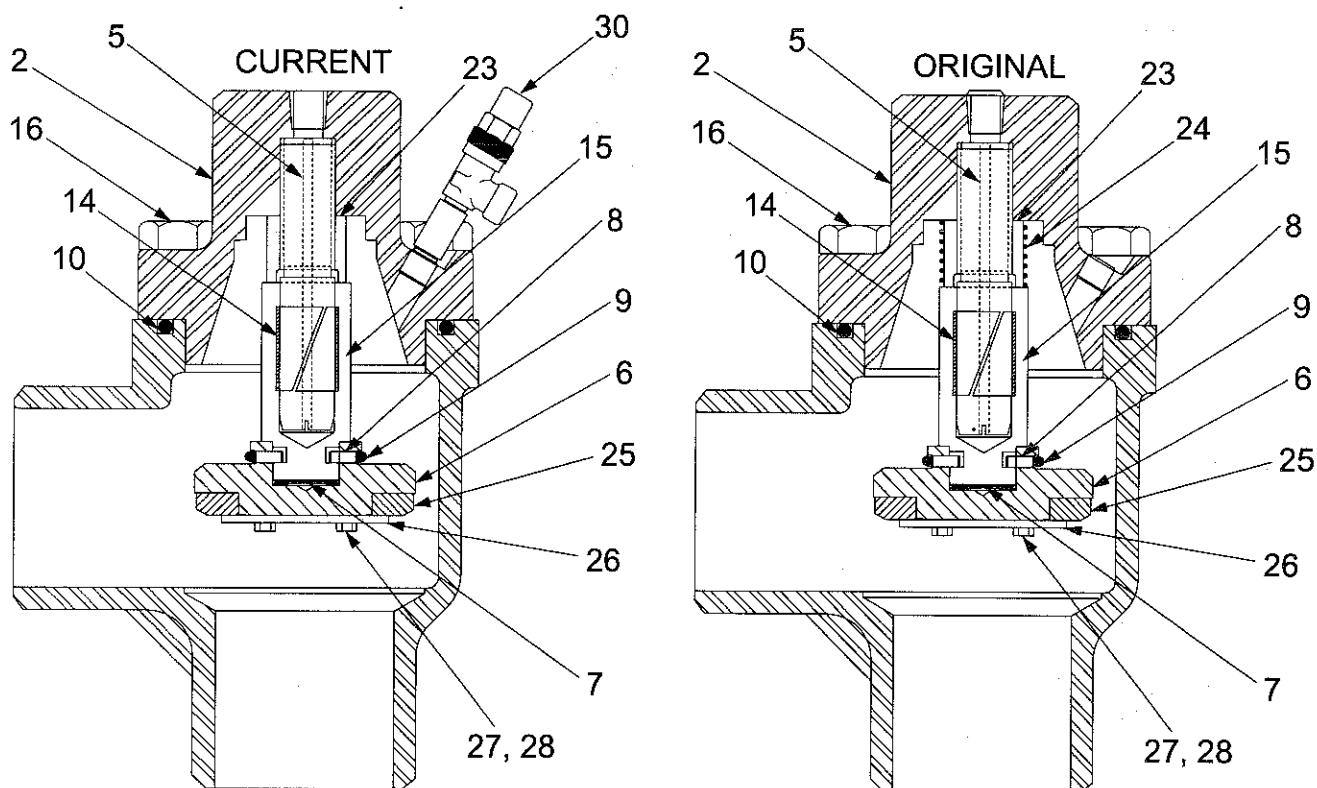


Figure 16. 5"—8" Discharge Stop/Check Valve (Frick).

| FIG. &<br>INDEX                                                                                                                      | ITEM<br>NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I<br>REF. |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|------|------|---------------|
| 16—                                                                                                                                  | 581C0062G01    | 5" Discharge Stop/Check Valve, High Stage, R-717 (Frick) | Ref. | D    |               |
|                                                                                                                                      | 581C0062G02    | 5" Discharge Stop/Check Valve, High Stage, R-22 (Frick)  | Ref. | D    |               |
|                                                                                                                                      | 581C0145G01    | 5" Discharge Stop/Check Valve, Booster, R-717 (Frick)    | Ref. | —    |               |
|                                                                                                                                      | 581C0145G02    | 5" Discharge Stop/Check Valve, Booster, R-22 (Frick)     | Ref. | —    |               |
| —1                                                                                                                                   | 581C0110G03    | Body, Valve, 5"                                          | 1    |      |               |
| —2                                                                                                                                   | 581C0063C01    | Bonnet, Check Valve                                      | 1    |      |               |
| —3                                                                                                                                   | 581C0048C01    | Bonnet, Stop Valve                                       | 1    |      |               |
| —4                                                                                                                                   | 581C0037H01    | Stem, Stop Valve                                         | 1    |      |               |
| —5                                                                                                                                   | 581B0100H03    | Shaft, Sliding Button                                    | 1    |      |               |
| —6                                                                                                                                   | 581C0144C01    | Button                                                   | 2    |      |               |
| —7                                                                                                                                   | 580A0095H01    | Spring                                                   | 2    |      |               |
| —8                                                                                                                                   | 580A0090H02    | Pin, Button                                              | 16   |      |               |
| —9                                                                                                                                   | 580A0096H01    | Ring, Retaining                                          | 2    |      |               |
| —10                                                                                                                                  | 980A0014H67    | O-ring, Bonnet                                           | 2    |      |               |
| —11                                                                                                                                  | 581A0023H01    | Seal, Backseat                                           | 1    |      |               |
| —12                                                                                                                                  | 959A0055H06    | Ring, Packing, Split                                     | 2    |      |               |
| —13                                                                                                                                  | 581A0024H01    | Nut, Packing                                             | 1    |      |               |
| —14                                                                                                                                  | 581A0027H01    | Ring, Packing, Split                                     | 1    |      |               |
| —15                                                                                                                                  | 581B0082H01    | Guide Bushing, Sliding Button                            | 1    |      |               |
| —16                                                                                                                                  | 901A0046A03    | Capscrew, Hex Head                                       | 12   |      |               |
| —17                                                                                                                                  | 581B0001H04    | Handwheel                                                | 1    |      |               |
| —18                                                                                                                                  | 581A0011H07    | Washer, Spring                                           | 1    |      |               |
| —19                                                                                                                                  | 581A0010H03    | Capscrew, Hex Head                                       | 1    |      |               |
| —20                                                                                                                                  | 581C0001H04    | Seal Cap                                                 | 1    |      |               |
| —21                                                                                                                                  | 580A0275H03    | Gasket, Seal Cap                                         | 1    |      |               |
| —22                                                                                                                                  | 959A0056H06    | Ring, Packing Center                                     | 1    |      |               |
| —23                                                                                                                                  | 580A0219H01    | Spacer, Check Valve                                      | 1    |      |               |
| —24                                                                                                                                  | 580A0218H01    | Spring, Return, High Stage Application                   | 1    |      |               |
| —25                                                                                                                                  | 581A0040H01    | Seal, Button                                             | 2    |      |               |
| —26                                                                                                                                  | 581A0016H01    | Plate, Retaining                                         | 2    |      |               |
| —27                                                                                                                                  | 901A0043E03    | Capscrew, Hex Head                                       | 6    |      |               |
| —28                                                                                                                                  | 111Q0940012    | Lockwasher                                               | 6    |      |               |
| —29                                                                                                                                  | 580A0183H06    | Washer, Packing                                          | 1    |      |               |
| —30                                                                                                                                  | 957A0003H01    | Valve, Angle, SC, 1/4 FPT x 1/4 MPT                      | 1    |      |               |
| Note: To identify; current design has valve and tubing connected to top of check valve assembly. Original is plugged: See Figure 16. |                |                                                          |      |      |               |

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| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I REF. |
|--------------|-------------|----------------------------------------------------------|------|------|------------|
| 16—          | 581C0053G01 | 6" Discharge Stop/Check Valve, High Stage, R-717 (Frick) | Ref. | C    |            |
|              | 581C0053G02 | 6" Discharge Stop/Check Valve, High Stage, R-22 (Frick)  | Ref. | C    |            |
|              | 581C0143G01 | 6" Discharge Stop/Check Valve, Booster, R-717 (Frick)    | Ref. | —    |            |
|              | 581C0143G02 | 6" Discharge Stop/Check Valve, Booster, R-717 (Frick)    | Ref. | —    |            |
| —1           | 581C0110G04 | Body, Valve, 6"                                          | 1    |      |            |
| —2           | 581D0045C01 | Bonnet, Check Valve                                      | 1    |      |            |
| —3           | 581D0033C01 | Bonnet, Stop Valve                                       | 1    |      |            |
| —4           | 581C0045H01 | Stem, Stop Valve                                         | 1    |      |            |
| —5           | 581B0100H02 | Shaft, Sliding Button                                    | 1    |      |            |
| —6           | 581C0142C01 | Button                                                   | 2    |      |            |
| —7           | 580A0095H01 | Spring                                                   | 2    |      |            |
| —8           | 580A0090H02 | Pin, Button                                              | 16   |      |            |
| —9           | 580A0096H01 | Ring, Retaining                                          | 2    |      |            |
| —10          | 980A0014H71 | O-ring, Bonnet                                           | 2    |      |            |
| —11          | 581A0023H01 | Seal, Backseat                                           | 1    |      |            |
| —12          | 959A0055H06 | Ring, Packing, Split                                     | 2    |      |            |
| —13          | 581A0024H01 | Nut, Packing                                             | 1    |      |            |
| —14          | 581A0027H01 | Ring, Packing, Split                                     | 1    |      |            |
| —15          | 581B0081H01 | Guide Bushing, Sliding Button                            | 1    |      |            |
| —16          | 901A0046A03 | Capscrew, Hex Head                                       | 16   |      |            |
| —17          | 581B0001H04 | Handwheel                                                | 1    |      |            |
| —18          | 581A0011H07 | Washer, Spring                                           | 1    |      |            |
| —19          | 581A0010H03 | Capscrew, Hex Head                                       | 1    |      |            |
| —20          | 581C0001H04 | Seal Cap                                                 | 1    |      |            |
| —21          | 580A0275H03 | Gasket, Seal Cap                                         | 1    |      |            |
| —22          | 959A0056H06 | Ring, Packing, Center                                    | 1    |      |            |
| —23          | 580A0219H01 | Spacer, Check Valve                                      | 1    |      |            |
| —24          | 580A0218H01 | Spring, Return, High Stage Application                   | 1    |      |            |
| —25          | 581A0040H02 | Seal, Button                                             | 2    |      |            |
| —26          | 581A0015H01 | Plate, Retaining                                         | 2    |      |            |
| —27          | 901A0043E03 | Capscrew, Hex Head                                       | 8    |      |            |
| —28          | 111Q0940012 | Lockwasher                                               | 8    |      |            |
| —29          | 580A0183H06 | Washer, Packing                                          | 1    |      |            |
| —30          | 957A0003H01 | Valve, Angle, SC, 1/4 FPT x 1/4 MPT                      | 1    |      |            |

Note: To identify; current design has valve and tubing connected to top of check valve assembly. Original is plugged. See Figure 16.

| FIG. &<br>INDEX                                                                                                                      | ITEM<br>NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I<br>REF. |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|------|------|---------------|
| 16—                                                                                                                                  | 581C0065G01    | 8" Discharge Stop/Check Valve, High Stage, R-717 (Frick) | Ref. | D    |               |
|                                                                                                                                      | 581C0065G02    | 8" Discharge Stop/Check Valve, High Stage, R-22 (Frick)  | Ref. | D    |               |
|                                                                                                                                      | 581C0141G01    | 8" Discharge Stop/Check Valve, Booster, R-717 (Frick)    | Ref. | —    |               |
|                                                                                                                                      | 581C0141G02    | 8" Discharge Stop/Check Valve, Booster, R-22 (Frick)     | Ref. | —    |               |
| —1                                                                                                                                   | 581C0110G05    | Body, Valve, 8"                                          | 1    |      |               |
| —2                                                                                                                                   | 581D0047C01    | Bonnet, Check Valve                                      | 1    |      |               |
| —3                                                                                                                                   | 581D0032C01    | Bonnet, Stop Valve                                       | 1    |      |               |
| —4                                                                                                                                   | 581C0042H01    | Stem, Stop Valve                                         | 1    |      |               |
| —5                                                                                                                                   | 581B0100H01    | Shaft, Sliding Button                                    | 1    |      |               |
| —6                                                                                                                                   | 581C0139C01    | Button                                                   | 2    |      |               |
| —7                                                                                                                                   | 580A0109H01    | Spring                                                   | 2    |      |               |
| —8                                                                                                                                   | 580A0192H01    | Pin, Button                                              | 16   |      |               |
| —9                                                                                                                                   | 580A0108H01    | Ring, Retaining                                          | 2    |      |               |
| —10                                                                                                                                  | 980A0014H80    | O-ring, Bonnet                                           | 2    |      |               |
| —11                                                                                                                                  | 581A0012H01    | Seal, Backseat                                           | 1    |      |               |
| —12                                                                                                                                  | 959A0055H07    | Ring, Packing, Split                                     | 2    |      |               |
| —13                                                                                                                                  | 581B0045H01    | Nut, Packing                                             | 1    |      |               |
| —14                                                                                                                                  | 581A0027H02    | Ring, Packing, Split                                     | 1    |      |               |
| —15                                                                                                                                  | 581B0080H01    | Guide Bushing, Sliding Button                            | 1    |      |               |
| —16                                                                                                                                  | 901A0046D03    | Capscrew, Hex Head                                       | 16   |      |               |
| —17                                                                                                                                  | 581B0001H05    | Handwheel                                                | 1    |      |               |
| —18                                                                                                                                  | 581A0011H03    | Washer, Spring                                           | 1    |      |               |
| —19                                                                                                                                  | 581A0010H04    | Capscrew, Hex Head                                       | 1    |      |               |
| —20                                                                                                                                  | 581C0001H05    | Seal Cap                                                 | 1    |      |               |
| —21                                                                                                                                  | 580A0275H04    | Gasket, Seal Cap                                         | 1    |      |               |
| —22                                                                                                                                  | 959A0056H07    | Ring, Packing, Center                                    | 1    |      |               |
| —23                                                                                                                                  | 580A0219H04    | Spacer, Check Valve                                      | 1    |      |               |
| —24                                                                                                                                  | 111Q0019539    | Spring, Return, High Stage Application                   | 1    |      |               |
| —25                                                                                                                                  | 581A0040H03    | Button, Seal                                             | 2    |      |               |
| —26                                                                                                                                  | 581A0014H01    | Plate, Retaining                                         | 2    |      |               |
| —27                                                                                                                                  | 901A0043E03    | Capscrew, Hex Head                                       | 10   |      |               |
| —28                                                                                                                                  | 111Q0940012    | Lockwasher                                               | 10   |      |               |
| —29                                                                                                                                  | 580A0183H07    | Washer, Packing                                          | 1    |      |               |
| —30                                                                                                                                  | 957A0003H01    | Valve, Angle, SC, 1/4 FPT x 1/4 MPT                      | 1    |      |               |
| Note: To identify; current design has valve and tubing connected to top of check valve assembly. Original is plugged. See Figure 16. |                |                                                          |      |      |               |

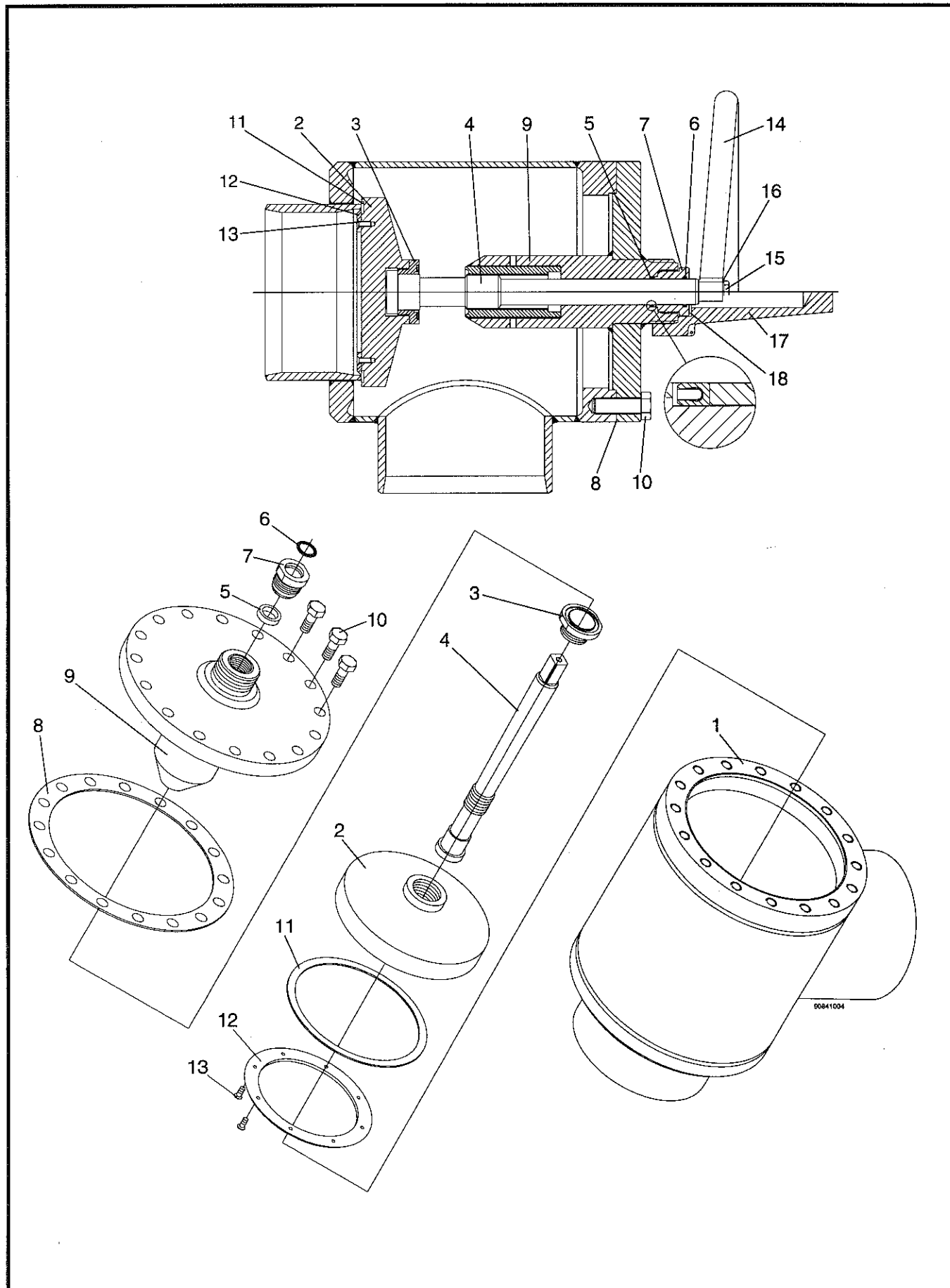


Figure 17. 8" Discharge Stop Valve Assembly (Gram).

| FIG. &<br>INDEX                            | ITEM<br>NUMBER | DESCRIPTION                                       | QTY. | REV. | P & I<br>REF. |
|--------------------------------------------|----------------|---------------------------------------------------|------|------|---------------|
| 17—                                        | 581C0157G01    | 8" Discharge Stop/Check Valve, R-22 (Gram/Frick)  | Ref. | A    |               |
|                                            | 581C0157G02    | 8" Discharge Stop/Check Valve, R-717 (Gram/Frick) | Ref. | A    |               |
|                                            | 950A0145G01    | 8" Stop Valve, R-22 (Gram)                        | 1    | C    |               |
|                                            | 950A0145G02    | 8" Stop Valve, R-717 (Gram)                       | 1    | C    |               |
| —1                                         | NA             | Body, Stop Valve                                  | Ref. |      |               |
| —2                                         | 724000641GR    | Cone                                              | 1    |      |               |
| —3                                         | 724000374GR    | Nut                                               | 1    |      |               |
| —4                                         | 724000599GR    | Spindle                                           | 1    |      |               |
| —5                                         | 550940247GR    | U-Sleeve                                          | 1    |      |               |
| —6                                         | 550840109GR    | O-Ring                                            | 1    |      |               |
| —7                                         | 724000552GR    | Screw, Packing                                    | 1    |      |               |
| —8                                         | 724000375GR    | Gasket                                            | 1    |      |               |
| —9                                         | 724000550GR    | Cover                                             | 1    |      |               |
| —10                                        | 420098283GR    | Screw, Allen Head, SS, M20 x 60                   | 12   |      |               |
| —11                                        | 724000620GR    | Seat                                              | 1    |      |               |
| —12                                        | 724000642GR    | Plate                                             | 1    |      |               |
| —13                                        | 420801048GR    | Screw, Allen Head, M6 x 16                        | 8    |      |               |
| —14                                        | 480012400GR    | Handwheel                                         | 1    |      |               |
| —15                                        | 420092241GR    | Screw, M16 x 30                                   | 1    |      |               |
| —16                                        | 421642109GR    | Disk                                              | 1    |      |               |
| —17                                        | 724003618GR    | Cap                                               | 1    |      |               |
| —18                                        | 724003668GR    | Seal                                              | 1    |      |               |
| Note: For Check Valve parts see Figure 16. |                |                                                   |      |      |               |

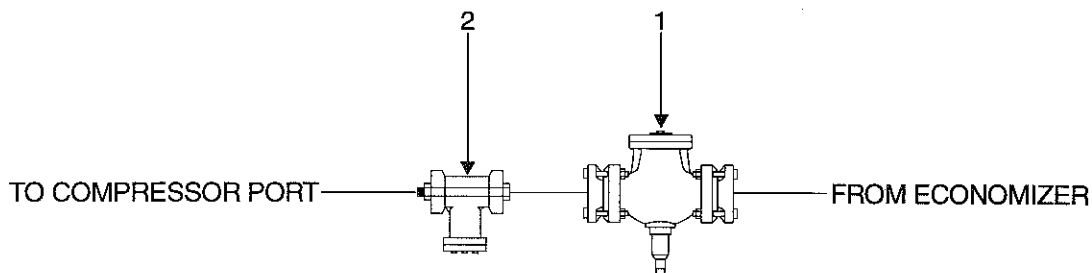
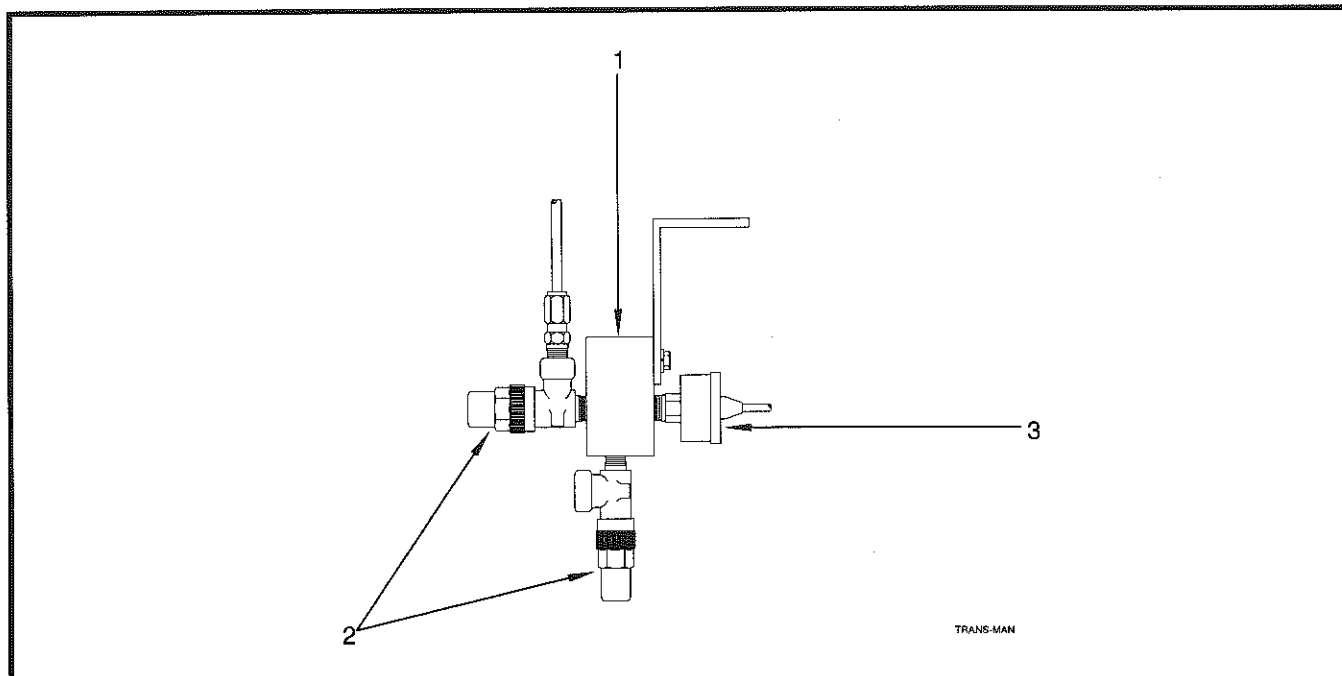


Figure 18. Economizer Kit.

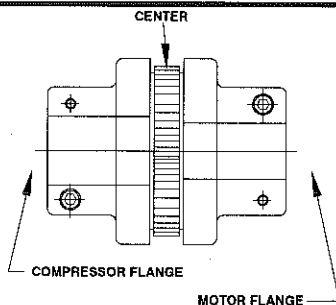
| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                             | QTY. | REV. | P & I REF. |
|--------------|-------------|-----------------------------------------|------|------|------------|
| 18—          | 535B0021    | Economizer Kit                          |      |      |            |
|              | 535M0001G01 | Economizer Kit, R-717, RWB II 60 & 76   | Ref. |      |            |
|              | 535M0001G03 | Economizer Kit, R-717, RWB II 100—222   | Ref. |      |            |
|              | 535M0001G04 | Economizer Kit, R-717, RWB II 316 & 399 | Ref. |      |            |
|              | 535M0001G05 | Economizer Kit, R-717, RWB II 480—856   | Ref. |      |            |
|              | 535M0001G11 | Economizer Kit, R-22, RWB II 60 & 76    | Ref. |      |            |
|              | 535M0001G12 | Economizer Kit, R-22, RWB II 100 & 134  | Ref. |      |            |
|              | 535M0001G13 | Economizer Kit, R-22, RWB II 177 & 222  | Ref. |      |            |
|              | 535M0001G14 | Economizer Kit, R-22, RWB II 316 & 399  | Ref. |      |            |
|              | 535M0001G15 | Economizer Kit, R-22, RWB II 480—856    | Ref. |      |            |
| —1           | 956A0025H21 | Valve, Check, 3/4", R-717, 60 & 76      | 1    |      |            |
|              | 956A0025H23 | Valve, Check, 1-5/8", R-717, 100—222    | 1    |      |            |
|              | 956A0025H24 | Valve, Check, 2", R-717, 316 & 399      | 1    |      |            |
|              | 959A0057H07 | Gasket, Flange                          | 2    |      |            |
|              | 956A0025H25 | Valve, Check, 3", R-717, 496—856        | 1    |      |            |
|              | 959A0057H18 | Gasket, Flange                          | 2    |      |            |
|              | 956A0025H22 | Valve, Check, 1-1/4", R-22, 60 & 76     | 1    |      |            |
|              | 959A0057H04 | Gasket, Flange                          | 2    |      |            |
|              | 956A0025H23 | Valve, Check, 1-5/8", R-22, 100 & 134   | 1    |      |            |
|              | 956A0025H24 | Valve, Check, 2", R-22, 177 & 222       | 1    |      |            |
|              | 959A0057H07 | Gasket, Flange                          | 2    |      |            |
|              | 956A0025H25 | Valve, Check, 3", R-22, 316 & 399       | 1    |      |            |
|              | 959A0057H18 | Gasket, Flange                          | 2    |      |            |
|              | 956A0025H26 | Valve, Check, 4", R-22, 496—856         | 1    |      |            |
|              | 959A0057H09 | Gasket, Flange                          | 2    |      |            |
| —2           | 950A0001H05 | Strainer, 1-1/4", R-717 & R-22, 60 & 76 | 1    |      |            |
|              | 950A0001H06 | Strainer, 2", R-717 & R-22, 100—399     | 1    |      |            |
|              | 950A0001H09 | Strainer, 3", R-717, 316—676            | 1    |      |            |
|              | 950A0001H11 | Strainer, 4", R-22, 496—856             | 1    |      |            |


**Figure 19. Transducer Manifold Assembly.**

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                | QTY. | REV. | P & I REF. |
|--------------|-------------|--------------------------------------------|------|------|------------|
| 19—          | 720M0017G01 | Transducer Manifold and Piping             | Ref. |      |            |
|              | 535D0305G01 | Assembly, Transducer Manifold              | Ref. | —    |            |
| —1           | 535C0348H01 | Manifold, Transducer, Aluminum             | 1    |      |            |
| —2           | 957A0003H01 | Valve, Angle, Seal Cap, 1/4" NPT           | 7    |      |            |
| —3           | 111Q0280853 | Transducer, Pressure, 0-100 PSIA           | 1    |      | PE-4       |
|              | 333Q0001345 | Transducer, Pressure, 0-200 PSIA           | 1    |      | PE-4       |
|              | 111Q0280854 | Transducer, Pressure, Optional, 0-300 PSIA | 1    |      | PE-4       |
|              | 111Q0280854 | Transducer, Pressure, 0-300 PSIA           | 3    |      | PE1-3      |
|              | 111Q0280887 | Transducer, Pressure, 0-500 PSIA           | 2    |      | PE1-3      |

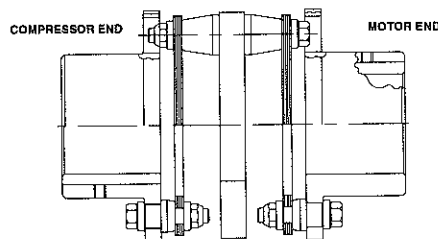
**RWB II PLUS ROTARY SCREW COMPRESSOR UNIT**  
**SERVICE PARTS LIST**

**Frick**



| MODEL   | SIZE | COMPRESSOR FLANGE |       | CENTER      | MOTOR FLANGE |        |
|---------|------|-------------------|-------|-------------|--------------|--------|
|         |      | PART NO.          | BORE  |             | PART NO.     | BORE   |
| 60-76   | 8C   | 930A0093H29       | 1.75" | 930A0093H01 | 930A0093H03  | 1.875" |
| 60-76   | 8C   | 930A0093H29       | 1.75  | 930A0093H01 | 930A0093H04  | 2.125  |
| 60-76   | 8C   | 930A0093H29       | 1.75  | 930A0093H01 | 930A0093H46  | 1.625  |
| 60-76   | 9C   | 930A0093H30       | 1.75  | 930A0093H05 | 930A0093H07  | 1.875  |
| 60-76   | 9C   | 930A0093H30       | 1.75  | 930A0093H05 | 930A0093H08  | 2.125  |
| 60-76   | 9C   | 930A0093H30       | 1.75  | 930A0093H05 | 930A0093H09  | 2.375  |
| 60-76   | 9C   | 930A0093H30       | 1.75  | 930A0093H05 | 930A0093H94  | 2.362  |
| 60-76   | 10C  | 930A0093H38       | 1.75  | 930A0093H11 | 930A0093H23  | 2.875  |
| 60-76   | 10C  | 930A0093H38       | 1.75  | 930A0093H11 | 930A0093H52  | 2.375  |
| 100-134 | 8C   | 930A0093H36       | 2.25  | 930A0093H01 | 930A0093H03  | 1.875  |
| 100-134 | 8C   | 930A0093H36       | 2.25  | 930A0093H01 | 930A0093H04  | 2.125  |
| 100-134 | 8C   | 930A0093H36       | 2.25  | 930A0093H01 | 930A0093H53  | 2.375  |
| 100-134 | 9C   | 930A0093H31       | 2.25  | 930A0093H05 | 930A0093H07  | 1.875  |
| 100-134 | 9C   | 930A0093H31       | 2.25  | 930A0093H05 | 930A0093H08  | 2.125  |
| 100-134 | 9C   | 930A0093H31       | 2.25  | 930A0093H05 | 930A0093H09  | 2.375  |
| 100-134 | 9C   | 930A0093H31       | 2.25  | 930A0093H05 | 930A0093H91  | 2.559  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H13  | 1.875  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H14  | 2.125  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H15  | 2.375  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H23  | 2.875  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H41  | 2.625  |
| 100-134 | 10C  | 930A0093H32       | 2.25  | 930A0093H11 | 930A0093H89  | 2.165  |
| 100-134 | 11C  | 930A0093H49       | 2.25  | 930A0093H17 | 930A0093H44  | 3.375  |
| 100-134 | 11C  | 930A0093H49       | 2.25  | 930A0093H17 | 930A0093H19  | 2.375  |
| 100-134 | 11C  | 930A0093H49       | 2.25  | 930A0093H17 | 930A0093H79  | 2.625  |
| 100-134 | 11C  | 930A0093H49       | 2.25  | 930A0093H17 | 930A0093H87  | 2.625  |
| 177-222 | 9C   | 930A0093H40       | 2.50  | 930A0093H05 | 930A0093H07  | 1.875  |
| 177-222 | 9C   | 930A0093H40       | 2.50  | 930A0093H05 | 930A0093H08  | 2.125  |
| 177-222 | 9C   | 930A0093H40       | 2.50  | 930A0093H05 | 930A0093H09  | 2.375  |
| 177-222 | 10C  | 930A0093H34       | 2.50  | 930A0093H11 | 930A0093H15  | 2.375  |
| 177-222 | 10C  | 930A0093H34       | 2.50  | 930A0093H11 | 930A0093H23  | 2.875  |
| 177-222 | 10C  | 930A0093H34       | 2.50  | 930A0093H11 | 930A0093H55  | 2.165  |
| 177-222 | 10C  | 930A0093H34       | 2.50  | 930A0093H11 | 930A0093H56  | 2.750  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H47  | 2.875  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H33  | 2.625  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H19  | 2.375  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H50  | 3.000  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H44  | 3.375  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H76  | 2.362  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H78  | 2.559  |
| 177-222 | 11C  | 930A0093H35       | 2.50  | 930A0093H17 | 930A0093H86  | 2.756  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H19  | 2.375  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H47  | 2.875  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H57  | 2.756  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H70  | 2.165  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H71  | 3.375  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H33  | 2.625  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H79  | 2.625  |
| 316-399 | 11C  | 930A0093H45       | 3.25  | 930A0093H17 | 930A0093H78  | 2.559  |

**Figure 20. Drive Coupling, Models 60—399**



| MODEL   | SIZE | COMPRESSOR BORE | MOTOR BORE | ASSEMBLY NO. |
|---------|------|-----------------|------------|--------------|
| 177-270 | 226  | 2.50"           | 1.500"     | 535C0342H01  |
| 177-270 | 226  | 2.50            | 1.625      | 535C0342H02  |
| 177-270 | 226  | 2.50            | 1.750      | 535C0342H03  |
| 177-270 | 226  | 2.50            | 1.875      | 535C0342H04  |
| 177-270 | 226  | 2.50            | 2.000      | 535C0342H05  |
| 177-270 | 226  | 2.50            | 2.125      | 535C0342H06  |
| 177-270 | 226  | 2.50            | 2.250      | 535C0342H07  |
| 177-270 | 226  | 2.50            | 2.375      | 535C0342H08  |
| 177-270 | 226  | 2.50            | 2.500      | 535C0342H09  |
| 177-270 | 226  | 2.50            | 2.625      | 535C0342H10  |
| 177-270 | 263  | 2.50            | 1.500      | 535C0342H11  |
| 177-270 | 263  | 2.50            | 1.625      | 535C0342H12  |
| 177-270 | 263  | 2.50            | 1.750      | 535C0342H13  |
| 177-270 | 263  | 2.50            | 1.875      | 535C0342H14  |
| 177-270 | 263  | 2.50            | 2.000      | 535C0342H15  |
| 177-270 | 263  | 2.50            | 2.125      | 535C0342H16  |
| 177-270 | 263  | 2.50            | 2.250      | 535C0342H17  |
| 177-270 | 263  | 2.50            | 2.375      | 535C0342H18  |
| 177-270 | 263  | 2.50            | 2.500      | 535C0342H19  |
| 177-270 | 263  | 2.50            | 2.625      | 535C0342H20  |
| 177-270 | 263  | 2.50            | 2.750      | 535C0342H21  |
| 177-270 | 263  | 2.50            | 2.875      | 535C0342H22  |
| 177-270 | 263  | 2.50            | 3.000      | 535C0342H23  |
| 177-270 | 301  | 2.50            | 1.500      | 535C0342H24  |
| 177-270 | 301  | 2.50            | 1.625      | 535C0342H25  |
| 177-270 | 301  | 2.50            | 1.750      | 535C0342H26  |
| 177-270 | 301  | 2.50            | 1.875      | 535C0342H27  |
| 177-270 | 301  | 2.50            | 2.000      | 535C0342H28  |
| 177-270 | 301  | 2.50            | 2.125      | 535C0342H29  |
| 177-270 | 301  | 2.50            | 2.250      | 535C0342H30  |
| 177-270 | 301  | 2.50            | 2.375      | 535C0342H31  |
| 177-270 | 301  | 2.50            | 2.500      | 535C0342H32  |
| 177-270 | 301  | 2.50            | 2.625      | 535C0342H33  |
| 177-270 | 301  | 2.50            | 2.750      | 535C0342H34  |
| 177-270 | 301  | 2.50            | 2.875      | 535C0342H35  |
| 177-270 | 301  | 2.50            | 3.000      | 535C0342H36  |
| 177-270 | 301  | 2.50            | 3.125      | 535C0342H37  |
| 177-270 | 301  | 2.50            | 3.250      | 535C0342H38  |
| 177-270 | 301  | 2.50            | 3.375      | 535C0342H39  |
| 177-270 | 301  | 2.50            | 3.500      | 535C0342H40  |
| 177-270 | 351  | 2.50            | 1.500      | 535C0342H41  |
| 177-270 | 351  | 2.50            | 1.625      | 535C0342H42  |
| 177-270 | 351  | 2.50            | 1.750      | 535C0342H43  |
| 177-270 | 351  | 2.50            | 1.875      | 535C0342H44  |
| 177-270 | 351  | 2.50            | 2.000      | 535C0342H45  |
| 177-270 | 351  | 2.50            | 2.125      | 535C0342H46  |
| 177-270 | 351  | 2.50            | 2.250      | 535C0342H47  |
| 177-270 | 351  | 2.50            | 2.375      | 535C0342H48  |
| 177-270 | 351  | 2.50            | 2.500      | 535C0342H49  |
| 177-270 | 351  | 2.50            | 2.625      | 535C0342H50  |
| 177-270 | 351  | 2.50            | 2.750      | 535C0342H51  |
| 177-270 | 351  | 2.50            | 2.875      | 535C0342H52  |

**Figure 21. Drive Coupling, Models 177—270**

RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST

**Frick**

COUPLING ASSEMBLIES - FIGURE 21, Continued.

| MODEL   | SIZE | COMPRESSOR BORE | MOTOR BORE | ASSEMBLY NO. |
|---------|------|-----------------|------------|--------------|
| 177-270 | 351  | 2.50"           | 3.000"     | 535C0342H53  |
| 177-270 | 351  | 2.50            | 3.125      | 535C0342H54  |
| 177-270 | 351  | 2.50            | 3.250      | 535C0342H55  |
| 177-270 | 351  | 2.50            | 3.375      | 535C0342H56  |
| 177-270 | 351  | 2.50            | 3.500      | 535C0342H57  |
| 177-270 | 351  | 2.50            | 3.625      | 535C0342H58  |
| 177-270 | 351  | 2.50            | 3.750      | 535C0342H59  |
| 177-270 | 351  | 2.50            | 3.875      | 535C0342H60  |
| 177-270 | 351  | 2.50            | 4.000      | 535C0342H61  |

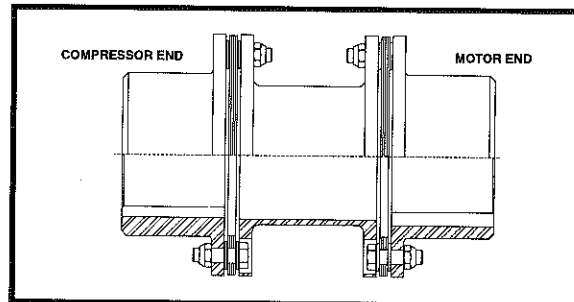


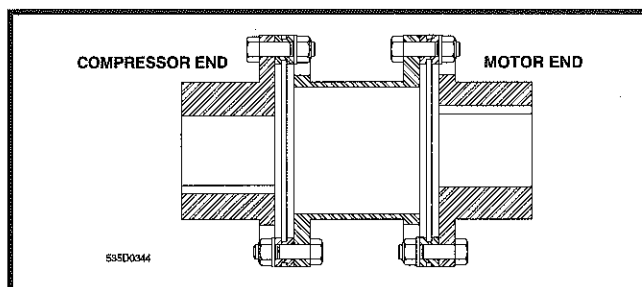
Figure 22. Drive Coupling, Models 496 and 676.

COUPLING ASSEMBLIES - FIGURE 22.

| MODEL   | SIZE | COMPRESSOR BORE | MOTOR BORE | ASSEMBLY NO. |
|---------|------|-----------------|------------|--------------|
| 496-676 | 350  | 3.75"           | 2.000"     | 535C0312H01  |
| 496-676 | 350  | 3.75            | 2.125      | 535C0312H02  |
| 496-676 | 350  | 3.75            | 2.250      | 535C0312H03  |
| 496-676 | 350  | 3.75            | 2.375      | 535C0312H04  |
| 496-676 | 350  | 3.75            | 2.500      | 535C0312H05  |
| 496-676 | 350  | 3.75            | 2.625      | 535C0312H06  |
| 496-676 | 350  | 3.75            | 2.750      | 535C0312H07  |
| 496-676 | 350  | 3.75            | 2.875      | 535C0312H08  |
| 496-676 | 350  | 3.75            | 3.000      | 535C0312H09  |
| 496-676 | 350  | 3.75            | 3.125      | 535C0312H10  |
| 496-676 | 350  | 3.75            | 3.250      | 535C0312H11  |
| 496-676 | 350  | 3.75            | 3.375      | 535C0312H12  |
| 496-676 | 350  | 3.75            | 3.500      | 535C0312H13  |
| 496-676 | 350  | 3.75            | 3.625      | 535C0312H14  |
| 496-676 | 350  | 3.75            | 3.750      | 535C0312H15  |
| 496-676 | 350  | 3.75            | 3.875      | 535C0312H16  |
| 496-676 | 350  | 3.75            | 4.000      | 535C0312H17  |
| 496-676 | 350  | 3.75            | 4.187      | 535C0312H18  |
| 496-676 | 350  | 3.75            | 4.250      | 535C0312H19  |
| 496-676 | 350  | 3.75            | 4.375      | 535C0312H20  |
| 496-676 | 350  | 3.75            | 4.437      | 535C0312H21  |
| 496-676 | 350  | 3.75            | 4.500      | 535C0312H22  |
| 496-676 | 375  | 3.75            | 2.000      | 535C0312H31  |
| 496-676 | 375  | 3.75            | 2.125      | 535C0312H32  |
| 496-676 | 375  | 3.75            | 2.250      | 535C0312H33  |
| 496-676 | 375  | 3.75            | 2.375      | 535C0312H34  |
| 496-676 | 375  | 3.75            | 2.500      | 535C0312H35  |
| 496-676 | 375  | 3.75            | 2.625      | 535C0312H36  |
| 496-676 | 375  | 3.75            | 2.750      | 535C0312H37  |
| 496-676 | 375  | 3.75            | 2.875      | 535C0312H38  |
| 496-676 | 375  | 3.75            | 3.000      | 535C0312H39  |
| 496-676 | 375  | 3.75            | 3.125      | 535C0312H40  |
| 496-676 | 375  | 3.75            | 3.250      | 535C0312H41  |
| 496-676 | 375  | 3.75            | 3.375      | 535C0312H42  |
| 496-676 | 375  | 3.75            | 3.500      | 535C0312H43  |
| 496-676 | 375  | 3.75            | 3.625      | 535C0312H44  |

**COUPLING ASSEMBLIES - FIGURE 22, Continued.**

| MODEL   | SIZE | COMPRESSOR BORE | MOTOR BORE | ASSEMBLY NO. |
|---------|------|-----------------|------------|--------------|
| 496-676 | 375  | 3.75"           | 3.750"     | 535C0312H45  |
| 496-676 | 375  | 3.75            | 3.875      | 535C0312H46  |
| 496-676 | 375  | 3.75            | 4.000      | 535C0312H47  |
| 496-676 | 375  | 3.75            | 4.187      | 535C0312H48  |
| 496-676 | 375  | 3.75            | 4.250      | 535C0312H49  |
| 496-676 | 375  | 3.75            | 4.375      | 535C0312H50  |
| 496-676 | 375  | 3.75            | 4.437      | 535C0312H51  |
| 496-676 | 375  | 3.75            | 4.500      | 535C0312H52  |


**FIGURE 23. Drive Coupling, Models 316—676.  
COUPLING ASSEMBLIES-FIGURE 23.**

| BORE   |            | ASSEMBLY NUMBERS |             |             |             |             |
|--------|------------|------------------|-------------|-------------|-------------|-------------|
| MOTOR  | COMPRESSOR | SIZE 250         | SIZE 320    | SIZE 400    | SIZE 500    | SIZE 630    |
| 1.875" | 3.250"     | 535D0344H01      | 535D0344H13 | —           | —           | —           |
| 2.000  | 3.250      | 535D0344H02      | 535D0344H14 | 535D0344H26 | 535D0344H40 | —           |
| 2.125  | 3.250      | 535D0344H03      | 535D0344H15 | 535D0344H27 | 535D0344H41 | —           |
| 2.250  | 3.250      | 535D0344H04      | 535D0344H16 | 535D0344H28 | 535D0344H42 | —           |
| 2.375  | 3.250      | 535D0344H05      | 535D0344H17 | 535D0344H29 | 535D0344H43 | —           |
| 2.500  | 3.250      | 535D0344H06      | 535D0344H18 | 535D0344H30 | 535D0344H44 | —           |
| 2.625  | 3.250      | 535D0344H07      | 535D0344H19 | 535D0344H31 | 535D0344H45 | —           |
| 2.750  | 3.250      | 535D0344H08      | 535D0344H20 | 535D0344H32 | 535D0344H46 | —           |
| 2.875  | 3.250      | 535D0344H09      | 535D0344H21 | 535D0344H33 | 535D0344H47 | —           |
| 3.000  | 3.250      | 535D0344H10      | 535D0344H22 | 535D0344H34 | 535D0344H48 | —           |
| 3.125  | 3.250      | 535D0344H11      | 535D0344H23 | 535D0344H35 | 535D0344H49 | —           |
| 3.250  | 3.250      | 535D0344H12      | 535D0344H24 | 535D0344H36 | 535D0344H50 | —           |
| 3.375  | 3.250      | —                | 535D0344H25 | 535D0344H37 | 535D0344H51 | —           |
| 3.500  | 3.250      | —                | —           | 535D0344H38 | 535D0344H52 | —           |
| 3.625  | 3.250      | —                | —           | 535D0344H39 | 535D0344H53 | —           |
| 3.750  | 3.250      | —                | —           | —           | 535D0344H54 | —           |
| 3.875  | 3.250      | —                | —           | —           | 535D0344H55 | —           |
| 2.000  | 3.750      | —                | —           | —           | 535D0344H56 | —           |
| 2.125  | 3.750      | —                | —           | —           | 535D0344H57 | —           |
| 2.250  | 3.750      | —                | —           | —           | 535D0344H58 | —           |
| 2.375  | 3.750      | —                | —           | —           | 535D0344H59 | 535D0344H72 |
| 2.500  | 3.750      | —                | —           | —           | 535D0344H60 | 535D0344H73 |
| 2.625  | 3.750      | —                | —           | —           | 535D0344H61 | 535D0344H74 |
| 2.750  | 3.750      | —                | —           | —           | 535D0344H62 | 535D0344H75 |
| 2.875  | 3.750      | —                | —           | —           | 535D0344H63 | 535D0344H76 |
| 3.000  | 3.750      | —                | —           | —           | 535D0344H64 | 535D0344H77 |
| 3.125  | 3.750      | —                | —           | —           | 535D0344H65 | 535D0344H78 |
| 3.250  | 3.750      | —                | —           | —           | 535D0344H66 | 535D0344H79 |
| 3.375  | 3.750      | —                | —           | —           | 535D0344H67 | 535D0344H80 |
| 3.500  | 3.750      | —                | —           | —           | 535D0344H68 | 535D0344H81 |
| 3.625  | 3.750      | —                | —           | —           | 535D0344H69 | 535D0344H82 |
| 3.750  | 3.750      | —                | —           | —           | 535D0344H70 | 535D0344H83 |
| 3.875  | 3.750      | —                | —           | —           | 535D0344H71 | 535D0344H84 |
| 4.000  | 3.750      | —                | —           | —           | —           | 535D0344H85 |
| 4.125  | 3.750      | —                | —           | —           | —           | 535D0344H86 |

Note: Size 250, 320 and 400 used on Models 316 and 399. Size 500 and 630 used on Models 496 and 676.

RWB II PLUS ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST

**Frick**

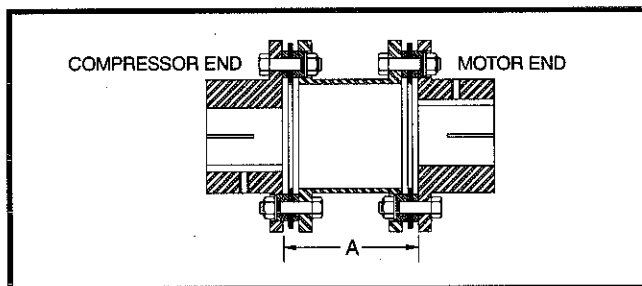


FIGURE 24. Drive Coupling, Model 856.  
COUPLING ASSEMBLIES-FIGURE 24.

| BORE   |            | ASSEMBLY NUMBERS |             |             |             |             |
|--------|------------|------------------|-------------|-------------|-------------|-------------|
| MOTOR  | COMPRESSOR | SIZE BP48        | SIZE BP53   | SIZE BP58*  | SIZE BP58** | SIZE BP63   |
| 2.375" | 2.500"     | 535D0503H01      | 535D0503H25 | —           | —           | —           |
| 2.500  | 2.500      | 535D0503H02      | 535D0503H26 | —           | —           | —           |
| 2.625  | 2.500      | 535D0503H03      | 535D0503H27 | —           | —           | —           |
| 2.750  | 2.500      | 535D0503H04      | 535D0503H28 | —           | —           | —           |
| 2.875  | 2.500      | 535D0503H05      | 535D0503H29 | —           | —           | —           |
| 3.000  | 2.500      | 535D0503H06      | 535D0503H30 | —           | —           | —           |
| 3.125  | 2.500      | 535D0503H07      | 535D0503H31 | —           | —           | —           |
| 3.250  | 2.500      | 535D0503H08      | 535D0503H32 | —           | —           | —           |
| 3.375  | 2.500      | 535D0503H09      | 535D0503H33 | —           | —           | —           |
| 3.500  | 2.500      | 535D0503H10      | 535D0503H34 | —           | —           | —           |
| 3.625  | 2.500      | 535D0503H11      | 535D0503H35 | —           | —           | —           |
| 3.750  | 2.500      | 535D0503H12      | 535D0503H36 | —           | —           | —           |
| 2.375  | 3.250      | 535D0503H13      | 535D0503H37 | —           | —           | —           |
| 2.500  | 3.250      | 535D0503H14      | 535D0503H38 | —           | —           | —           |
| 2.625  | 3.250      | 535D0503H15      | 535D0503H39 | —           | —           | —           |
| 2.750  | 3.250      | 535D0503H16      | 535D0503H40 | —           | —           | —           |
| 2.875  | 3.250      | 535D0503H17      | 535D0503H41 | —           | —           | —           |
| 3.000  | 3.250      | 535D0503H18      | 535D0503H42 | —           | —           | —           |
| 3.125  | 3.250      | 535D0503H19      | 535D0503H43 | —           | —           | —           |
| 3.250  | 3.250      | 535D0503H20      | 535D0503H44 | —           | —           | —           |
| 3.375  | 3.250      | 535D0503H21      | 535D0503H45 | —           | —           | —           |
| 3.500  | 3.250      | 535D0503H22      | 535D0503H46 | —           | —           | —           |
| 3.625  | 3.250      | 535D0503H23      | 535D0503H47 | —           | —           | —           |
| 3.750  | 3.250      | 535D0503H24      | 535D0503H48 | —           | —           | —           |
| 2.375  | 3.250      | —                | —           | 535D0503H49 | —           | —           |
| 2.500  | 3.250      | —                | —           | 535D0503H50 | —           | —           |
| 2.625  | 3.250      | —                | —           | 535D0503H51 | —           | —           |
| 2.750  | 3.250      | —                | —           | 535D0503H52 | —           | —           |
| 2.875  | 3.250      | —                | —           | 535D0503H53 | —           | —           |
| 3.000  | 3.250      | —                | —           | 535D0503H54 | —           | —           |
| 3.125  | 3.250      | —                | —           | 535D0503H55 | —           | —           |
| 3.250  | 3.250      | —                | —           | 535D0503H56 | —           | —           |
| 3.375  | 3.250      | —                | —           | 535D0503H57 | —           | —           |
| 3.500  | 3.250      | —                | —           | 535D0503H58 | —           | —           |
| 3.625  | 3.250      | —                | —           | 535D0503H59 | —           | —           |
| 3.750  | 3.250      | —                | —           | 535D0503H60 | —           | —           |
| 3.875  | 3.250      | —                | —           | 535D0503H61 | —           | —           |
| 4.000  | 3.250      | —                | —           | 535D0503H62 | —           | —           |
| 4.125  | 3.250      | —                | —           | 535D0503H63 | —           | —           |
| 2.375  | 3.750      | —                | —           | —           | 535D0503H64 | —           |
| 2.500  | 3.750      | —                | —           | —           | 535D0503H65 | —           |
| 2.625  | 3.750      | —                | —           | —           | 535D0503H66 | —           |
| 2.750  | 3.750      | —                | —           | —           | 535D0503H67 | —           |
| 2.875  | 3.750      | —                | —           | —           | 535D0503H68 | 535D0503H79 |
| 3.000  | 3.750      | —                | —           | —           | 535D0503H69 | 535D0503H80 |
| 3.125  | 3.750      | —                | —           | —           | 535D0503H70 | 535D0503H81 |
| 3.250  | 3.750      | —                | —           | —           | 535D0503H71 | 535D0503H82 |

**COUPLING ASSEMBLIES-FIGURE 24, Continued.**

| BORE   |            | ASSEMBLY NUMBERS |           |            |             |             |
|--------|------------|------------------|-----------|------------|-------------|-------------|
| MOTOR  | COMPRESSOR | SIZE BP48        | SIZE BP53 | SIZE BP58* | SIZE BP58** | SIZE BP63   |
| 3.375" | 3.750"     | —                | —         | —          | 535D0503H72 | 535D0503H83 |
| 3.500  | 3.750      | —                | —         | —          | 535D0503H73 | 535D0503H84 |
| 3.625  | 3.750      | —                | —         | —          | 535D0503H74 | 535D0503H85 |
| 3.750  | 3.750      | —                | —         | —          | 535D0503H75 | 535D0503H86 |
| 3.875  | 3.750      | —                | —         | —          | 535D0503H76 | 535D0503H87 |
| 4.000  | 3.750      | —                | —         | —          | 535D0503H77 | 535D0503H88 |
| 4.125  | 3.750      | —                | —         | —          | 535D0503H78 | 535D0503H89 |
| 4.250  | 3.750      | —                | —         | —          | —           | 535D0503H90 |
| 4.375  | 3.750      | —                | —         | —          | —           | 535D0503H91 |
| 4.500  | 3.750      | —                | —         | —          | —           | 535D0503H92 |
| 4.625  | 3.750      | —                | —         | —          | —           | 535D0503H93 |
| 4.750  | 3.750      | —                | —         | —          | —           | 535D0503H94 |
| 4.875  | 3.750      | —                | —         | —          | —           | 535D0503H95 |

\* A = 6.69"

\*\* A = 6.00"

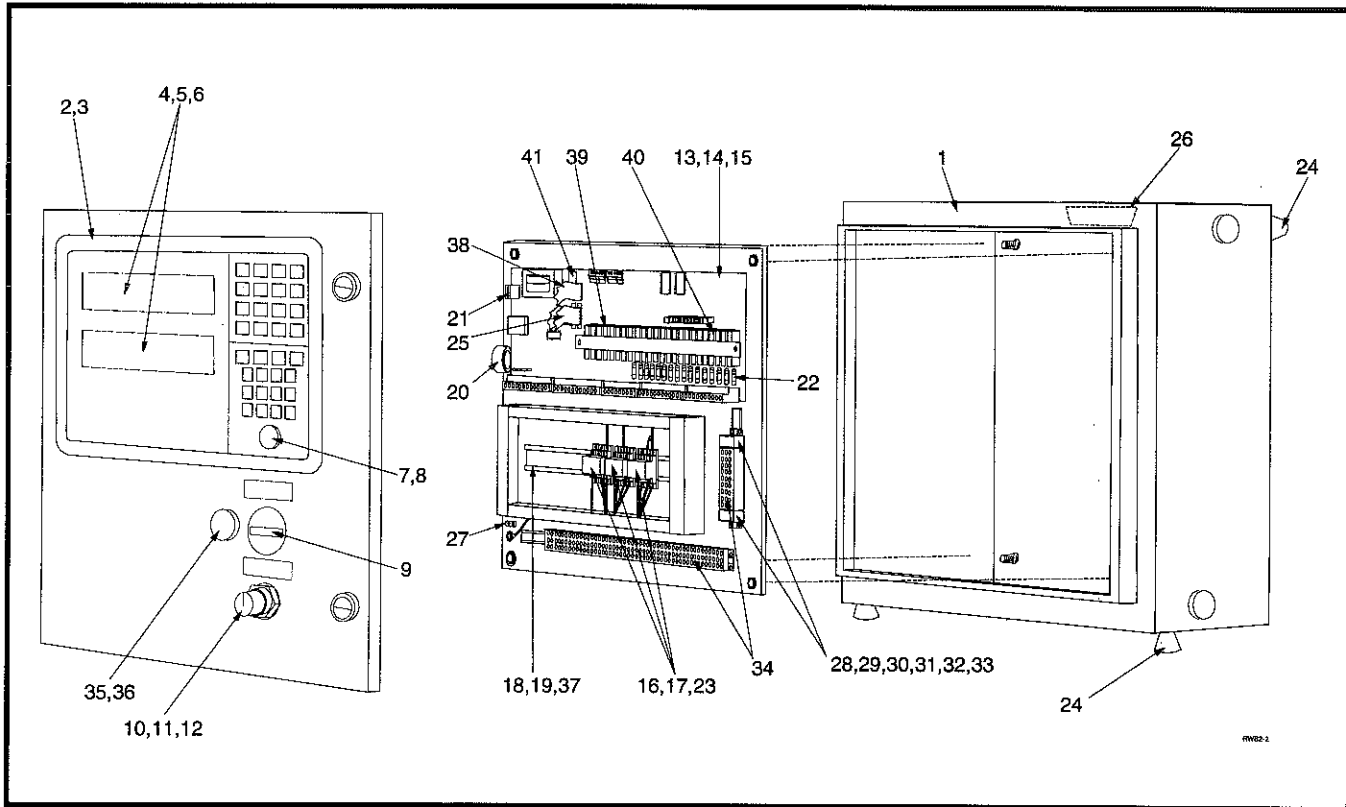
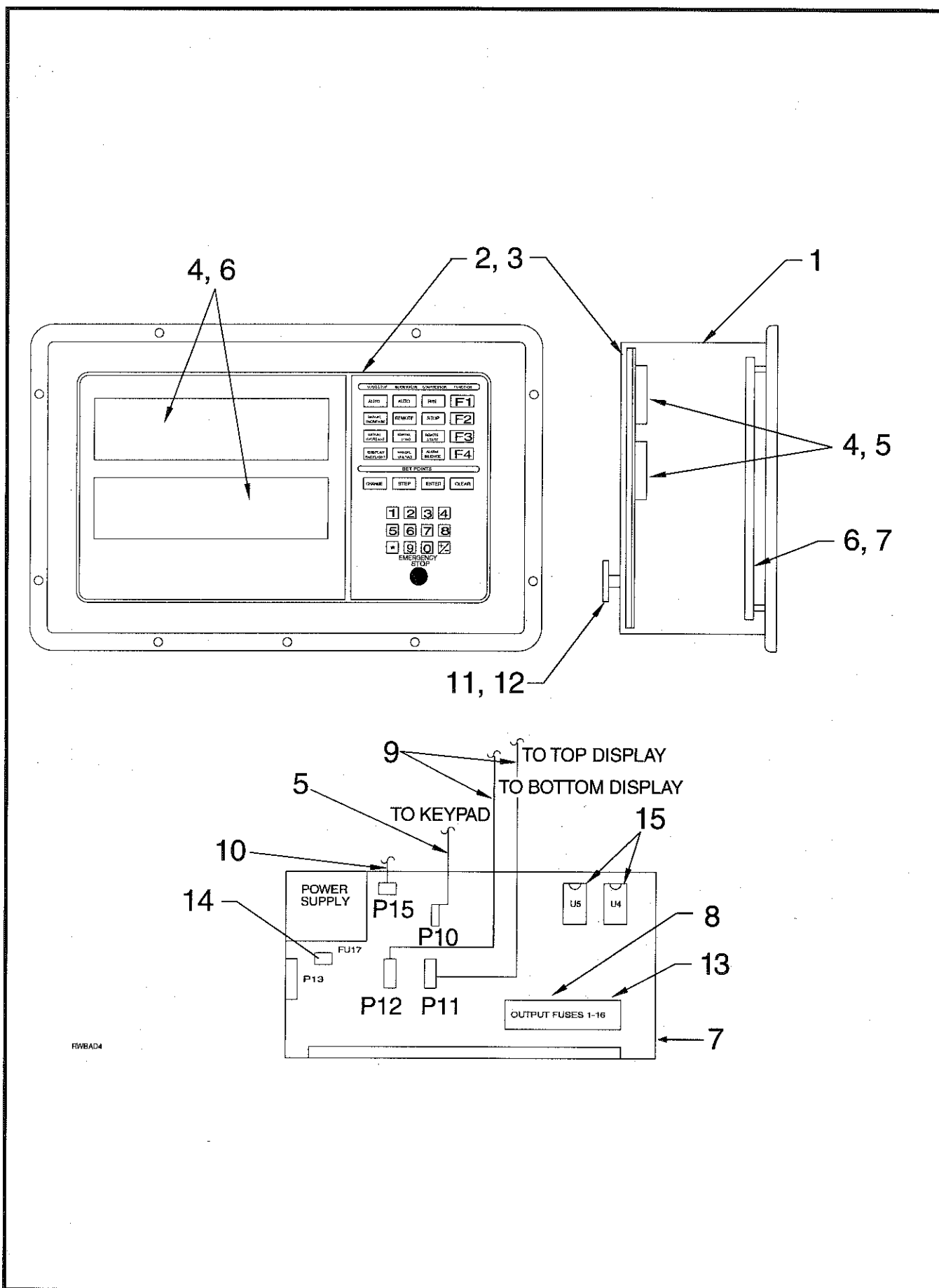


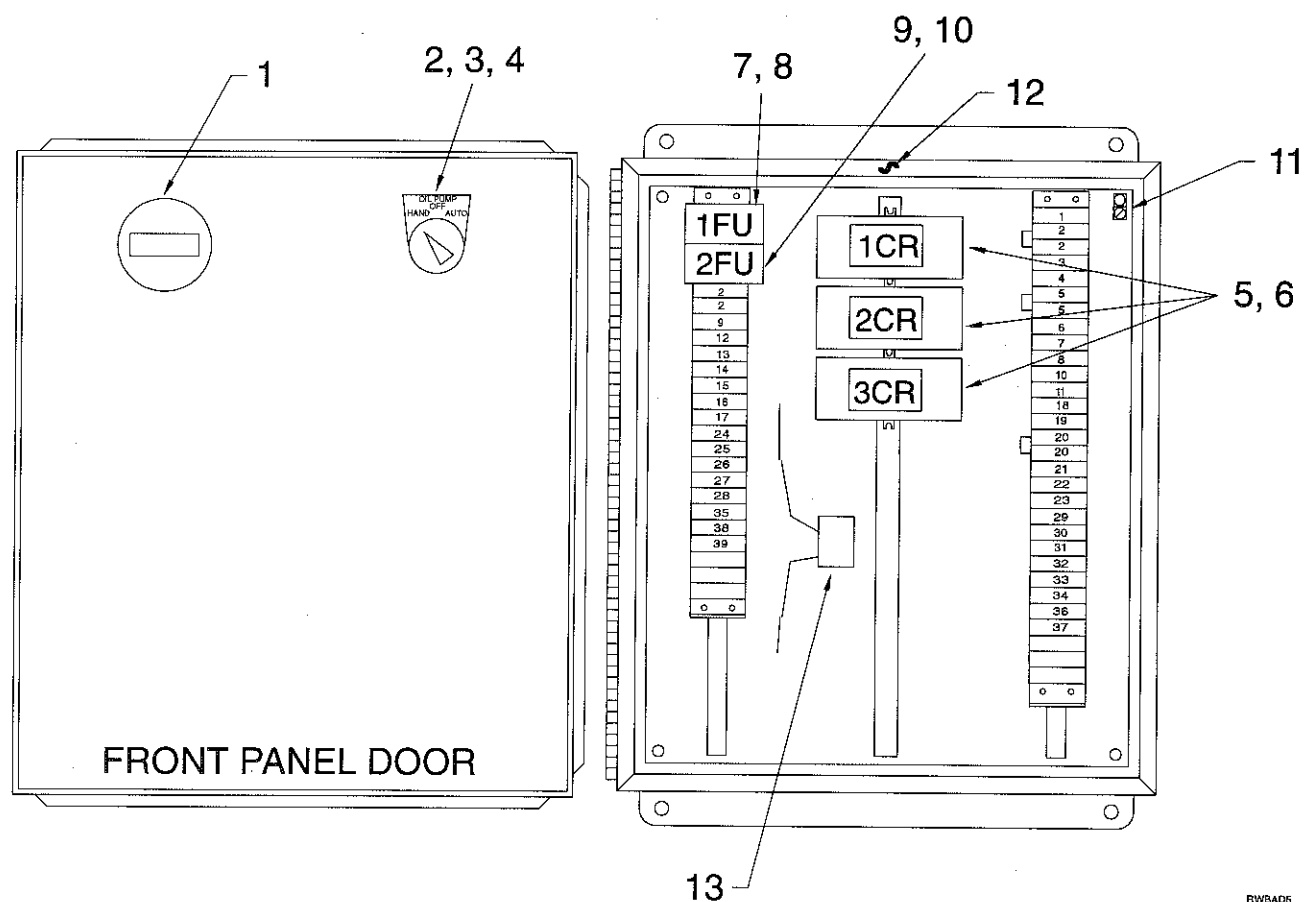
Figure 25. Microprocessor Control Center (Single Box).

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                   | QTY. | REV. | P & I REF. |
|--------------|-------------|-------------------------------|------|------|------------|
| 25—          | 640D0019G01 | Microprocessor Control Center | Ref. |      |            |
| —1           | 640D0021H01 | Enclosure, Single Box         | 1    |      |            |
| —2           | 640D0011H01 | Cover, Keypad and Gasket (a)  | 1    |      |            |
| —3           | 649D0979H01 | Gasket, Cover                 | 1    |      |            |
| —4           | 333Q0000068 | Display (b)                   | 2    |      |            |
| —5           | 649A0264H01 | Plexiglas, Display            | 2    |      |            |
| —6           | 111Q0940136 | Spacer, Nylon                 | 20   |      |            |
| —7           | 111Q0280832 | Button, Emergency Stop (c)    | 1    |      |            |
| —8           | 111Q0280833 | Block, Contact (c)            | 1    |      |            |
| —9           | 333Q0000261 | Meter, Elapsed Time, 115V (d) | 1    |      |            |
|              | 333Q0000899 | Meter, Elapsed Time, 230V     | 1    |      |            |
| —10          | 111Q0451178 | Switch, Three Position        | 1    |      |            |
| —11          | 111Q0451159 | Block, Contact, 1 N.O.        | 1    |      |            |
| —12          | 111Q0451160 | Block, Contact, 2 N.O.        | 1    |      |            |
| —13          | 333Q0000547 | Circuit Board, SBC (e)(k)     | 1    | D    |            |
| —14          | 333Q0000211 | Standoff                      | 8    |      |            |
| —15          | 333Q0000212 | Screw, #6/32 x 1/2"           | 8    |      |            |
| —16          | 333Q0000206 | Relay, IDEC, 3PDT, 115V (f)   | 3    |      |            |
|              | 333Q0000897 | Relay, IDEC, 3PDT, 230V       | 3    |      |            |
|              | 111Q0451152 | Relay, Potter & Brumfield (f) | 3    |      |            |
| —17          | 333Q0000207 | Base, IDEC (f)                | 3    |      |            |
|              | 111Q0452442 | Base, Potter & Brumfield (f)  | 3    |      |            |
| —18          | 333Q0000194 | Relay, 2PDT, 115V (Optional)  | 1-5  |      |            |
|              | 333Q0000898 | Relay, 2PDT, 230V (Optional)  | 1-5  |      |            |
| —19          | 333Q0000195 | Base                          | 1-5  |      |            |
| —20          | 111Q0281059 | Ring, Toroid                  | 1    |      |            |

| FIG. & INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ITEM NUMBER | DESCRIPTION                                                | QTY. | REV. | P & I REF. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|------|------|------------|
| —21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280981 | Fuse, 1.5 Amp (For F-17, Not Shown)                        | 1    | B    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 111Q0281039 | Fuse, 3/8 Amp (For F-17, Not Shown)                        | 1    | C    |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0000573 | Fuse, 1.5 Amp (For F-1 & F-2)                              | 2    | D    |            |
| —22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0000117 | Fuse, 5 Amp                                                | 16   | C,D  |            |
| —23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280958 | Suppressor                                                 | 3    |      |            |
| —24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0450361 | Isolator, Vibration                                        | 4    |      |            |
| —25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280930 | Cable, Ribbon, 26 Conductors (Display)                     | 2    |      |            |
| —26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0450790 | Inhibitor, Corrosion                                       | 1    |      |            |
| —27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0000566 | Lug, Ground                                                | 2    |      |            |
| —28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0281053 | Fuse, 15 Amp (Heater Option) (g)                           | 1    |      |            |
| —29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0068849 | Block, Fuse                                                | 1    |      |            |
| —30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280687 | Fuse, 10 Amp                                               | 1    |      |            |
| —31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0068849 | Block, Fuse                                                | 1    |      |            |
| —32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0281053 | Fuse, 15 Amp (Heater Option) (g)                           | 2    |      |            |
| —33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0068849 | Block, Fuse                                                | 2    |      |            |
| —34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0001183 | Block, Terminal                                            | 49   |      |            |
| —35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0451637 | Lens, Red (Optional)                                       | 1    |      |            |
| —36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0451635 | Base, Alarm Light, 115V (Optional)                         | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0000934 | Base, Alarm Light, 230V (Optional)                         | 1    |      |            |
| —37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280916 | Timer (Optional with Power Assist) (Original) (h)          | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 111Q0280973 | Relay, Agastat, 230V Control (Original) (h)                | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0001116 | Timer, All Voltages, Multivalve Power Assist (Current) (h) | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0001117 | Base, Timer (Current) (h)                                  | 1    |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0001118 | Clips for Timer/Base (Current) (h)                         | 2    |      |            |
| —38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 640B0019H01 | Cable, Ribbon, 12 Conductors (Keypad)                      | 1    |      |            |
| —39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0000116 | Module, Input, 115V                                        | 8    | C, D |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 333Q0000789 | Module, Input, 230V                                        | 8    | C, D |            |
| —40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0281061 | Module, Output                                             | 16   | C, D |            |
| —41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 640A0020G01 | Kit, 3.6V Backup Battery (Original) (j)                    | 1    | C, D |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 649A0260H01 | Kit, 3.6V Backup Battery (Current and universal) (j)       | 1    | C, D |            |
| <p>(a) Order kit 640A0009G01 if replacing old 649D1890H01 cover.</p> <p>(b) Replace both LCD displays if they do not have yellow backgrounds. Not shown; 111Q0280933 Ribbon Cable, 4 Conductors—replacement for units using Display with backlight (IEE Model).</p> <p>(c) Emergency Stop Button and Contact Block should be replaced together.</p> <p>(d) Replaces all previous meters; no gasket required.</p> <p>(e) Rev. D boards replace all previous. When replacing Rev. B boards with Rev. D; order Modules 3—39 and 3—40. Replace both Displays with 333Q0000068.</p> <p>(f) Relays 111Q0451152 (Potter &amp; Brumfield) and 333Q0000206 (IDEC) are not interchangeable.</p> <p>(g) Replaces 20 Amp Oil Heater Fuse used earlier.</p> <p>(h) Current 333Q0001116 Timer (plus base and clips) replaces original timer and relay. It has universal voltage with no need for a relay.</p> <p>(i) If battery uses a plastic socket or uses pins to plug a three legged battery into, use either kit. If battery is soldered and/or has a red and a black wire, use 649A0260H01. 649A0260H01 is a universal kit for all situations.</p> <p>(k) Does not include input/output modules or U4/U5 eeprom chips.</p> <p>Retrofit Note: If package uses RWBII Plus micro, both Power Assist Kit (535M0146) and Power Assist Wiring Kit (640M0007G17) will be required. Kits 535M0146G01—535M0146G04 are for field installation.</p> |             |                                                            |      |      |            |



| FIG. &<br>INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ITEM<br>NUMBER | DESCRIPTION                              | QTY. | REV. | P & I<br>REF. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------|------|---------------|
| 26—                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 649D1778G01    | Microprocessor Panel Assembly            | Ref. |      |               |
| —1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | —              | Enclosure (no longer available)          | 1    |      |               |
| —2                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 640M0008G01    | Keypad, Kit, Two Box Microprocessor (a)  | 1    |      |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 640C0010G01    | Keypad Assembly                          | 1    |      |               |
| —3                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 649D0979H01    | Gasket, Microprocessor Cover             | 1    |      |               |
| —4                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 619A0264H01    | Display, Plexiglass                      | 2    |      |               |
| —5                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 640B0019H01    | Cable, Ribbon, 12 Conductor (Keypad)     | 1    |      |               |
| —6                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0000068    | Display, LCD (b)                         | 2    |      |               |
| —7                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 333Q0000547    | Circuit Board, SBC (c)                   | 1    | D    |               |
| —8                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280938    | Module, Output, for "No Rev." boards (c) | 1    | —    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 333Q0000116    | Module, Input, 115V, for Rev. C & D (c)  | 1    | C-D  |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111Q0281061    | Module, Output, for Rev. C & D (c)       | 1    | C-D  |               |
| —9                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 111Q0280930    | Cable, Ribbon, 26 Conductors (Display)   | 2    |      |               |
| —10                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111Q0280933    | Cable, Ribbon, 4 Conductors (Backlight)  | 1    |      |               |
| —11                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111Q0280832    | Button, Emergency Stop (d)               | 1    |      |               |
| —12                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111Q0280833    | Block, Contact (d)                       | 1    |      |               |
| —13                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111Q0280934    | Fuse, 1.5 Amp, Flat Pack                 | 17   | A    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111Q0280981    | Fuse, 1.5 Amp, Glass                     | 16   | B    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 333Q0000117    | Fuse, 5 Amp                              | 16   | D    |               |
| —14                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111Q0281039    | Fuse, 3/8 Amp (F-17)                     | 1    | B    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 333Q0000573    | Fuse, 2 Amp (F-1)                        | 1    | D    |               |
| —15                                                                                                                                                                                                                                                                                                                                                                                                                                                              | —              | Chip, Eprom, U4 & U5 (e)                 | 2    |      |               |
| <p>(a) Replaces 649D1890H01, which does not include 640B0019H01 Cable.</p> <p>(b) When converting from 111Q0280919 to 333Q0000068, both displays must be replaced.</p> <p>(c) Rev. D boards replace all previous. Rev. A, B &amp; C boards are no longer available.</p> <p>(d) Emergency Stop Button and Contact Block must be replaced together.</p> <p>(e) To order: Contact Frick Controls. Have original Sales Order Number and program code from chips.</p> |                |                                          |      |      |               |



RWBAD6

Figure 27. Junction Box Assembly.

| FIG. &<br>INDEX                                                                                                                                                                                                                                      | ITEM<br>NUMBER | DESCRIPTION                  | QTY. | REV. | P & I<br>REF. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|------|------|---------------|
| 27—                                                                                                                                                                                                                                                  | 649D1845G01    | Assembly, Junction Box       | Ref. |      |               |
| —1                                                                                                                                                                                                                                                   | 333Q0000261    | Meter, Elapsed Time (a)      | 1    |      |               |
| —2                                                                                                                                                                                                                                                   | 111Q0451178    | Switch, Selector, 3 Position | 1    |      |               |
| —3                                                                                                                                                                                                                                                   | 111Q0451159    | Block, Contact               | 1    |      |               |
| —4                                                                                                                                                                                                                                                   | 111Q0451160    | Block, Contact               | 1    |      |               |
| —5                                                                                                                                                                                                                                                   | 111Q0451152    | Relay, Control               | 3    |      |               |
| —6                                                                                                                                                                                                                                                   | 111Q0451153    | Base, Relay (b)              | 3    |      |               |
|                                                                                                                                                                                                                                                      | 111Q0452442    | Base, Relay, (c)             | 3    | B    |               |
| —7                                                                                                                                                                                                                                                   | 111Q0281053    | Fuse, 15 Amp (d)             | 1    |      |               |
| —8                                                                                                                                                                                                                                                   | 111Q0068849    | Block, Fuse                  | 1    |      |               |
| —9                                                                                                                                                                                                                                                   | 111Q0280687    | Fuse, 10 Amp                 | 1    |      |               |
| —10                                                                                                                                                                                                                                                  | 111Q0068849    | Block, Fuse                  | 1    |      |               |
| —11                                                                                                                                                                                                                                                  | 333Q0000118    | Clamp, Ground                | 1    |      |               |
| —12                                                                                                                                                                                                                                                  | 111Q0450790    | Inhibitor, Corrosion         | 1    |      |               |
| —13                                                                                                                                                                                                                                                  | 111Q0280958    | Suppressor                   | 6    |      |               |
| (a) Replaces all previous, no gasket required.<br>(b) 111Q0451153 attaches to track by separate clamp with hold-down screw.<br>(c) 111Q0452442 has snap-on attachment to the track.<br>(d) 111Q0281053 15 Amp fuse replaces 111Q0280777 20 Amp fuse. |                |                              |      |      |               |

RWB II QUANTUM ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST

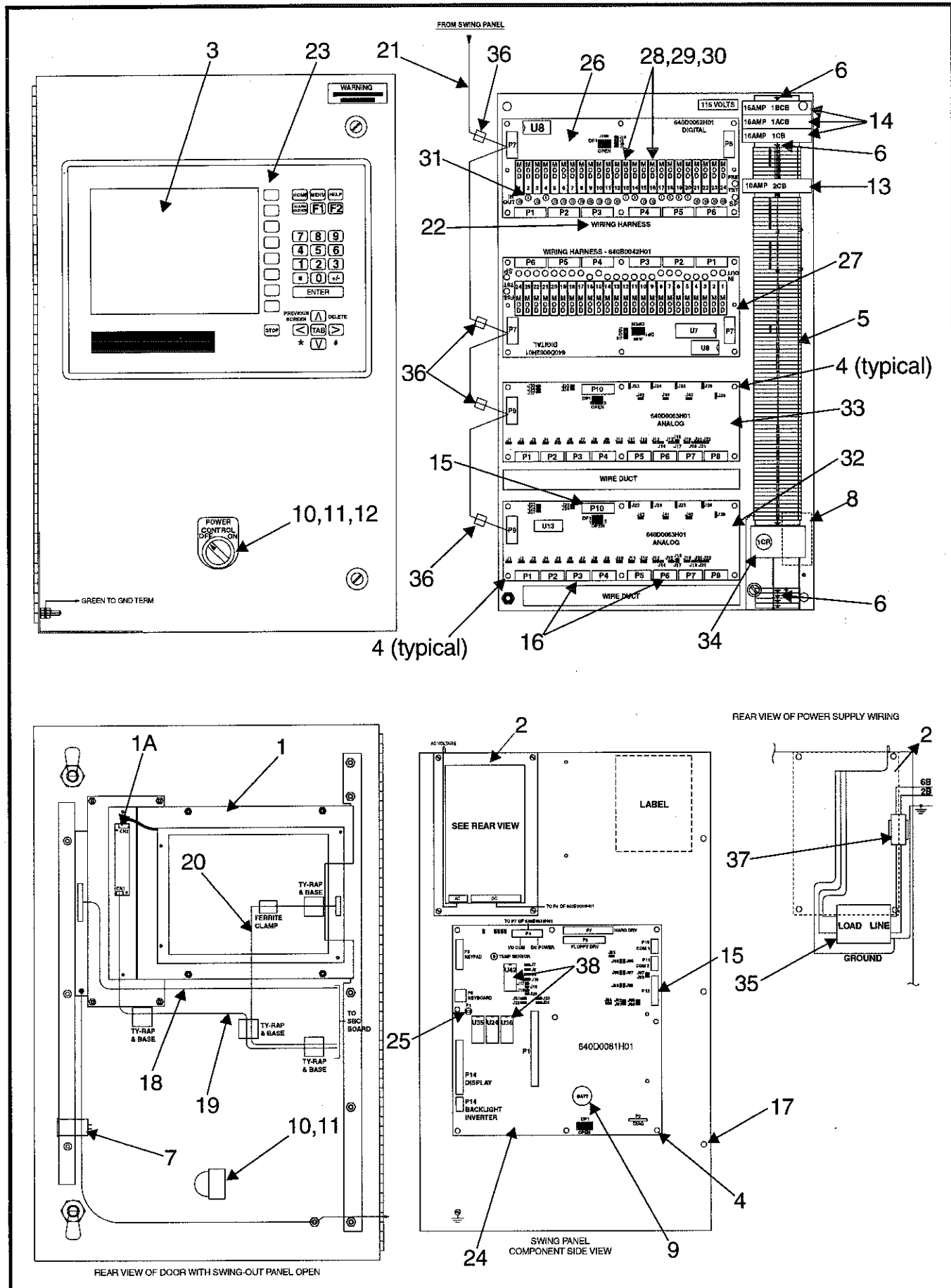


Figure 28. Quantum Control Panel, Typical.

| FIG. & INDEX | ITEM NUMBER | DESCRIPTION                                              | QTY. | REV. | P & I REF. |
|--------------|-------------|----------------------------------------------------------|------|------|------------|
| 28—          | 640D0070G01 | Quantum Control Panel Assembly, 115V                     | Ref. | E    |            |
|              | 640D0070G31 | Quantum Control Panel Assembly, 230V                     | Ref. |      |            |
| —1           | 640C0021G01 | Assembly, VGA Display, Sharp (Display only, 333Q0001581) | 1    |      |            |
| —1A          | 333Q0001582 | Inverter, Sharp                                          | 1    |      |            |
|              | 333Q0001495 | Inverter, NEC (for use with earlier NEC Display only)    | 1    |      |            |
| —2           | 640C0022G01 | Power Supply (a)                                         | 1    |      |            |
|              | 640B0048H01 | AC Wiring Harness, Power Supply                          | 1    |      |            |
|              | 640B0049H01 | DC Wiring Harness, Power Supply                          | 1    |      |            |
| —3           | 640A0032H01 | Plexiglas, Display                                       | 1    |      |            |
| —4           | 333Q0001199 | Stand-off, Circuit Board                                 | 20   |      |            |
| —5           | 333Q0001183 | Block, Terminal                                          | 53   |      |            |
| —6           | 333Q0001185 | Block, Terminal, Ground                                  | 8    |      |            |
| —7           | 333Q0001191 | Meter, Hour                                              | 1    |      |            |
| —8           | 333Q0001192 | Transformer, 2.5V                                        | 1    |      |            |
| —9           | 333Q0001193 | Battery, 3V (b)                                          | 2    |      |            |
| —10          | 333Q0001194 | Switch, Power                                            | 1    |      |            |
| —11          | 333Q0001195 | Block, Contact, Power Switch                             | 1    |      |            |
| —12          | 333Q0001196 | Plate, ON-OFF                                            | 1    |      |            |
| —13          | 333Q0001721 | Circuit Breaker, 10 Amp                                  | 1    |      |            |
| —14          | 333Q0001722 | Circuit Breaker, 16 Amp                                  | 1—3  |      |            |
| —15          | 333Q0001234 | Connector, 8 Pole                                        | 2    |      |            |
| —16          | 333Q0001258 | Connector, 6 Pole                                        | 8    |      |            |
| —17          | 333Q0001339 | Fastener, Clip                                           | 3    |      |            |
|              | 333Q0001340 | Fastener, Stud                                           | 3    |      |            |
|              | 333Q0001341 | Fastener, Retainer                                       | 3    |      |            |
| —18          | 640B0031H01 | Cable, Key Pad                                           | 1    |      |            |
| —19          | 640B0032H01 | Cable, CCFT Backlight Inverter (for Sharp Display)       | 1    |      |            |
|              | 640B0044H01 | Cable, CCFT Backlight Inverter (for NEC Display)         | 1    |      |            |
| —20          | 640B0045H01 | Cable, LCD Display (for Sharp Display)                   | 1    |      |            |
|              | 640B0043H01 | Cable, LCD Display (for NEC Display)                     | 1    |      |            |
| —21          | 640B0038H01 | Cable Harness, Power                                     | 1    |      |            |
| —22          | 640B0041H01 | Cable Harness, Board 1                                   | 1    |      |            |
| —23          | 640D0060H01 | Cover and Keypad                                         | 1    |      |            |
| —24          | 640D0061H01 | Circuit Board, Main (b)                                  | 1    |      |            |
| —25          | 333Q0001327 | Fuse, .25 Amp, 250V                                      | 1    |      | F1         |
| —26          | 640D0062H01 | Circuit Board (Digital Board 1) (c)                      | 1    |      |            |
| —27          | 640C0024G02 | Assembly, Circuit Board (Digital Board 2) (c)            | 1    |      |            |
| —28          | 111Q0281061 | Module, Output, 280V (For 115/230V)                      | 9    |      |            |
| —29          | 333Q0000116 | Module, Input, 90-140V (For 115V)                        | 3    |      |            |
| —30          | 333Q0000789 | Module, Input, 230V                                      | 3    |      |            |
| —31          | 333Q0001326 | Fuse, 5 Amp, 250V                                        | 24   |      | F1-24      |
| —32          | 640D0063H01 | Circuit Board (Analog Board 1) (d)                       | 1    |      |            |
| —33          | 640C0026G02 | Assembly, Circuit Board (Analog Board 2) (d)             | 1    |      |            |
| —34          | 333Q0000206 | Relay, 3PDT, 115V                                        | 1    |      |            |
|              | 333Q0000897 | Relay, 3PDT, 230V                                        | 1    |      |            |
|              | 333Q0000207 | Socket, Relay, 3PDT                                      | 1    |      |            |
|              | 111Q0280958 | Suppressor, Surge, 600 VDC, .1 MFD                       | 1    |      |            |
|              | 333Q0000196 | Spring, Hold Down                                        | 2    |      |            |
| —35          | 333Q0001418 | Filter, Line, EMI/RFI                                    | 1    |      |            |
| —36          | 333Q0001425 | Clamp, Ferrite                                           | 4    |      |            |
| —37          | 333Q0001404 | Tube, Ferrite                                            | 1    |      |            |
| —38          | —           | Chips, Operating, U24, U35, U36, U42 (e)                 | 4    |      |            |

(a) Power supply type changed 3/99. No serial no. break. Power One replaced by Condor. When replacing Power One, order Kit 640C0022G11. When replacing Condor, order 640C0022G01. To identify, names are on each one. Also, see Figure 29.

(b) 333Q0001193 Batteries are included with Main Circuit Board Assembly.

(c) Digital Circuit Board Assembly includes eprom and stand-offs, but not input/output modules.

(d) Analog Circuit Board Assembly includes eprom and stand-offs. For analog output component options, or when adding options with second circuit board, contact Frick Controls.

(e) To order chips contact Frick Controls. Have original sales order number and current version of chips.

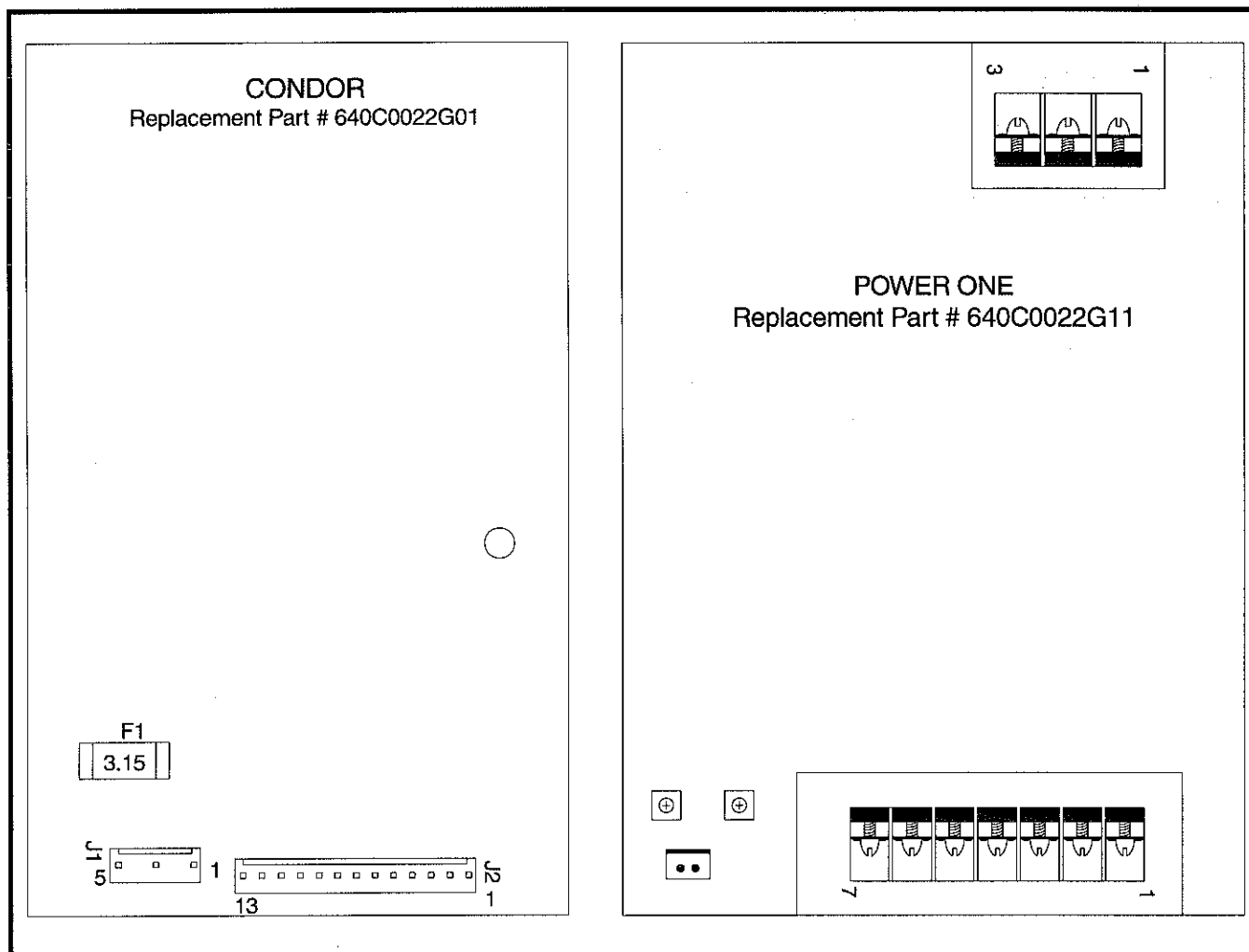


Figure 29. Quantum power supply identification.

| FRICK BLUE PAINT |             |
|------------------|-------------|
| Size             | Item Number |
| 1 PT.*           | 993A0001H01 |
| 1 GAL.           | 333Q0000404 |
| 2 GAL.**         | 333Q0000724 |

\* Spray Can

\*\* Matte finish epoxy paint. Items are a resin and cure which require mixing.

| <b>MISCELLANEOUS TUBING AND CONNECTORS</b> |                                                 |
|--------------------------------------------|-------------------------------------------------|
| <b>ITEM NUMBER</b>                         | <b>DESCRIPTION</b>                              |
| 111Q0350059                                | Connnection, 1/2 ODF x 3/8" MPT                 |
| 111Q0350659                                | Elbow, 1/2 ODT x 1/2" MPT                       |
| 111Q0350713                                | Elbow, 1/2 ODT x 1/4" MPT                       |
| 111Q0350714                                | Connection, Steel, 1/2 ODF x 1/4" MPT           |
| 111Q0350715                                | Connection, Steel, 1/2 ODF x 1/2" MPT           |
| 111Q0350955                                | Elbow, 1/2 ODT x 3/4" MPT                       |
| 111Q0350956                                | Connection, Steel, 1/2 ODF x 3/4" MPT           |
| 111Q0350958                                | Elbow, Steel, 3/4 ODT x 3/4" MPT                |
| 111Q0350970                                | Connection, Steel, 3/4 ODF x 3/4" MPT           |
| 111Q0350989                                | Elbow, Steel, 1 ODT x 1" MPT                    |
| 111Q0350990                                | Connection, Steel, 1 ODF x 1" MPT               |
| 111Q0351029                                | Elbow, 1-1/4 ODT x 1-1/4" MPT                   |
| 111Q0351034                                | Connection, Steel, 3/4 ODF x 1/2" MPT           |
| 111Q0351038                                | Sleeve, Steel, 3/4" ODF                         |
| 111Q0351040                                | Elbow, 3/4 ODT x 1/2" MPT                       |
| 111Q0351043                                | Connection, 1-1/4 ODF x 1-1/4" MPT              |
| 111Q0351070                                | Elbow, 3/8 x 1/2" MPT                           |
| 111Q0351098                                | Connection, Steel, 1 ODT x 1" FPT               |
| 111Q0450048                                | Elbow, 1-1/4 ODT x 1" MPT                       |
| 111Q0450779                                | Tubing, Vinyl, 1/2 OD x 3/8" ID                 |
| 111Q0880123                                | Tubing, Steel, 1/2 x .035" wall                 |
| 111Q0880127                                | Tubing, Steel, 3/4 x .049" wall                 |
| 111Q0880337                                | Tubing, Stainless Steel, 3/8 x .035" wall       |
| 111Q0880339                                | Tubing, Steel, 1 x .049" wall                   |
| 111Q0880419                                | Tubing, Steel, 1-1/4 x .065" wall               |
| 111Q0880452                                | Tubing, Stainless Steel, 1/4 x .035" wall       |
| 333Q0000012                                | Connection, Steel, 3/4 ODT x 3/4" FPT           |
| 944A0113H02                                | Elbow, Stainless Steel, 1/4 ODT x 1/4" MPT      |
| 944A0113H03                                | Elbow, Stainless Steel, 3/8 ODT x 1/4" MPT      |
| 944A0113H05                                | Elbow, Stainless Steel, 3/8 ODT x 3/8" MPT      |
| 944A0116H02                                | Connection, Stainless Steel, 1/4 ODT x 1/4" MPT |
| 944A0116H05                                | Connection, Stainless Steel, 3/8 ODT x 1/4" MPT |
| 944A0116H07                                | Connection, Stainless Steel, 3/8 ODT x 3/8" MPT |
| 944A0117H01                                | Connection, Stainless Steel, 1/4 ODT x 1/8" FPT |
| 944A0117H05                                | Connection, Stainless Steel, 3/8 ODT x 1/2" FPT |
| 944A0118H01                                | Union, Stainless Steel, 1/4 ODT x 1/4" ODT      |
| 944A0118H02                                | Union, Stainless Steel, 3/8 ODT x 3/8" ODT      |
| 944A0119H02                                | Tee Union, Stainless Steel, 3/8" Tube           |

| <b>FRICK COMPRESSOR OILS</b> |                 |                  |
|------------------------------|-----------------|------------------|
| <b>Number</b>                | <b>5 Gallon</b> | <b>55 Gallon</b> |
| 2A                           | 111Q0550019     | 111Q0550020      |
| 3                            | 111Q0550001     | 111Q0550010      |
| 4                            | —               | 111Q0550005      |
| 5                            | 111Q0550008     | 111Q0550009      |
| 6                            | 333Q0000940     | 333Q0000941      |
| 7                            | 111Q0550024     | 111Q0550025      |
| 9                            | 333Q0000850     | 333Q0000849      |
| 10                           | 333Q0000740     | 333Q0000739      |
| 11                           | 333Q0000852     | 333Q0000851      |
| 12                           | 333Q0001141     | 333Q0001142      |
| 13                           | 333Q0001253     | 333Q0001254      |
| 14                           | 333Q0001144     | 333Q0001145      |

**RWB II PLUS ROTARY SCREW COMPRESSOR UNIT**  
**NUMERICAL PARTS LIST**

**Frick**

| ITEM<br>NUMBER | FIG. &<br>INDEX NO. | ITEM<br>NUMBER | FIG. &<br>INDEX NO. | ITEM<br>NUMBER | FIG. &<br>INDEX NO. |
|----------------|---------------------|----------------|---------------------|----------------|---------------------|
| 581B0001H03    | 14—17               | 111Q0281053    | 27—7                | 111Q0940169    | 12—31               |
| 960A0080H41    | 9—5                 | 111Q0281059    | 25—20               | 111Q0940170    | 13—31               |
| 111Q0019539    | 16—24               | 111Q0281061    | 25—40               | 333Q0000068    | 25—4                |
| 111Q0040772    | 2—1                 | 111Q0281061    | 26—8                | 333Q0000068    | 26—6                |
| 111Q0040773    | 2—1                 | 111Q0281061    | 28—28               | 333Q0000116    | 25—39               |
| 111Q0040774    | 2—1                 | 111Q0450361    | 25—24               | 333Q0000116    | 26—8                |
| 111Q0040775    | 2—1                 | 111Q0450790    | 25—26               | 333Q0000116    | 28—29               |
| 111Q0040776    | 2—1                 | 111Q0450790    | 27—12               | 333Q0000117    | 25—22               |
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| 111Q0068849    | 27—10               | 111Q0451313    | 2—5                 | 333Q0000212    | 25—15               |
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| 581B0033H02    | 14—11               | 581D0033C01    | 12—9                | 720D0107       | 9—5                 |
| 581B0045H01    | 12—11               | 581D0033C01    | 16—3                | 720D0127       | 9—5                 |
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| 581B0052H04    | 14—15               | 581D0047C01    | 16—2                | 720M0004G31    | 9—5                 |
| 581B0052H05    | 14—15               | 581D0062G04    | 7—5                 | 720M0004G32    | 9—5                 |
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| 581B0082H01    | 16—15               | 581D0064G04    | 7—5                 | 724000552GR    | 17—7                |
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| 581B0100H04    | 14—5                | 640A0020G01    | 25—41               | 724000642GR    | 17—12               |
| 581B0100H05    | 14—5                | 640A0032H01    | 28—3                | 724001061GR    | 15—5                |
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| 581C0001H04    | 16—20               | 640A0035H01    | 6—7                 | 724001063GR    | 15—5                |
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| 724003183GR    | 15—1                | 901A0047D06    | 12—41               | 944A0360G11    | 7—8                 |
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| 724003239GR    | 15—3                | 901A0098H09    | 8—6                 | 950A0001H06    | 18—2                |
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| 724003262GR    | 15—4                | 901A0098H11    | 8—6                 | 950A0001H11    | 18—2                |
| 724003266GR    | 15—4                | 901A0098H12    | 8—6                 | 950A0012H01    | 10—3                |
| 724003285GR    | 15—2                | 901A0098H14    | 8—6                 | 950A0018G01    | 10—3                |
| 724003287GR    | 15—2                | 901A0098H16    | 8—6                 | 950A0018G02    | 10—3                |
| 724003289GR    | 15—2                | 901A0098H19    | 8—6                 | 950A0019H01    | 6—2                 |
| 724003291GR    | 15—2                | 901A0098H21    | 8—6                 | 950A0019H01    | 7—6                 |
| 724003310GR    | 15—9                | 901A0098H22    | 8—6                 | 950A0019H01    | 10—3                |
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| 724003314GR    | 15—9                | 901A0098H31    | 8—6                 | 950A0019H03    | 6—2                 |
| 724003316GR    | 15—9                | 902A0021H01    | 3—14                | 950A0019H04    | 6—2                 |
| 724003335GR    | 15—10               | 902A0021H01    | 8—6                 | 950A0019H04    | 10—3                |
| 724003337GR    | 15—10               | 902A0021H03    | 4—8                 | 950A0020H01    | 7—2                 |
| 724003341GR    | 15—10               | 902A0021H03    | 8—6                 | 950A0020H02    | 7—2                 |
| 724003460GR    | 15—6                | 913A0047H01    | 3—5                 | 950A0021G03    | 10—3                |
| 724003462GR    | 15—6                | 913A0047H02    | 3—5                 | 950A0021G04    | 10—3                |
| 724003466GR    | 15—6                | 913A0047H03    | 3—5                 | 950A0021G05    | 10—3                |
| 724003485GR    | 15—8                | 913A0047H04    | 3—5                 | 950A0023H01    | 7—2                 |
| 724003487GR    | 15—8                | 914A0015H02    | 7—7                 | 950A0023H02    | 7—2                 |
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| 724003662GR    | 15—20               | 914A0015H08    | 7—7                 | 950A0027H06    | 8—2                 |
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| 901A0046A04    | 14—16               | 914A0016H11    | 9—5                 | 950A0046H01    | 8—8                 |
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| 901A0046D03    | 16—16               | 914A0057H02    | 7—7                 | 950A0054H04    | 10—3                |
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| 950A0111H02    | 10—2                | 951A0037H16    | 10—3                | 954A0051H07    | 10—9                |
| 950A0113H02    | 10—2                | 951A0041H01    | 10—3                | 954A0051H08    | 10—9                |
| 950A0115H02    | 7—3                 | 951A0053G01    | 10—10               | 954A0051H09    | 10—9                |
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| 950A0135G02    | 7—5                 | 952A0022H09    | 3—3                 | 956A0031H08    | 6—17                |
| 950A0135G02    | 8—4                 | 952A0025H01    | 8—1                 | 957A0003H01    | 5—3                 |
| 950A0135G02    | 9—6                 | 954A0007H01    | 9—2                 | 957A0003H01    | 6—14                |
| 950A0137G02    | 5—2                 | 954A0007H03    | 9—2                 | 957A0003H01    | 10—5                |
| 950A0137G02    | 9—1                 | 954A0008H01    | 10—4                | 957A0003H01    | 14—25               |
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| 959A0043H04    | 8—6                 | 959A0089H01    | 10—9                | 960A0067H12    | 9—5                 |
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| 959A0054H30    | 3—4                 | 959A0089H02    | 10—12               | 960A0078G09    | 9—5                 |
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| 959A0055H01    | 12—12               | 960A0043H04    | 7—7                 | 960A0080G02    | 9—5                 |
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| 959A0057H05    | 8—7                 | 960A0066G05    | 9—5                 | 980A0014H71    | 16—10               |
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| 959A0057H07    | 18—1                | 960A0066G09    | 7—7                 | 980A0014H80    | 13—27               |
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