



**S70-600 SPL/AUG 2002**

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## **Service Parts List**

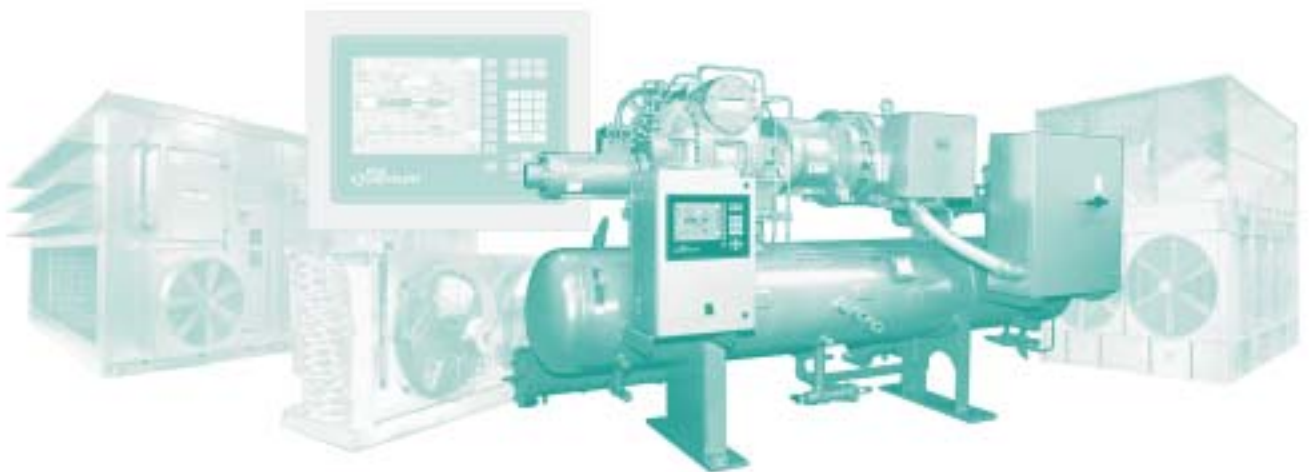
# *RWF*

## **ROTARY SCREW COMPRESSOR UNITS**

**WITH**

**QUANTUM CONTROL**

**MODELS: RWF 100 — 480**





### HOW TO USE SERVICE PARTS LIST

This Service Parts List is for standard Frick RWF Rotary Screw Compressor Units, Models 100—480. 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® Baltimore Parts Center 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 attached to the frame below the compressor.

**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**

<b>DESCRIPTION</b>	<b>QTY.</b>	<b>MODEL</b>	<b>ITEM NUMBER</b>
<b>QUANTUM™ CONTROL:</b>			
Assembly, VGA Display, Phillips (Display only, 649C1078H01)	1	ALL	642C0052G01
Inverter, Sharp & Phillips (TDK)	1	ALL	333Q0001582
Power Supply	1	ALL	640C0022G01
Cable, CCFT Backlight Inverter (for Phillips Display)	1	ALL	649D4824H01
Keypad, Overlay	1	ALL	640D0060H01
Board, Analog	1	ALL	640C0026G01
Board, Digital	1	ALL	640C0024G01
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
Relay, 2PDT, 24VDC	1	ALL	333Q0001095
Fuse, 2 Amp, Quantum Panel	1	ALL	333Q0001672
<b>UNIT:</b>			
Temperature Probe, Element Less Well (TE-1—4)	1	ALL	649A0994H01
Transducer, Pressure, 0—200 PSIA (PE-4)	1	ALL	913A0110H01
Transducer, Pressure, 0—500 PSIA (PE-1—3)	1	ALL	913A0110H02
Coil, 120V 60Hz, 110V 50Hz, Solenoid Valve	2	ALL	951A0092H04
Coil, 220V 50Hz, 240V 60Hz, Solenoid Valve	2	ALL	951A0092H05
Coil, 240V 50Hz, Solenoid Valve	2	ALL	951A0092H06
Seal Kit, Solenoid Valve	1	ALL	951A0056H34
Transmitter, Linear, Slide Valve (less well)	1	ALL	534D1251H03
Transmitter, Linear, Slide Stop (less well)	1	ALL	534C1478H02
Heater, Oil, 500W, 120V	1	ALL	913A0092G01
Heater, Oil, 1000W, 120V	1	ALL	913A0092G02
Heater, Oil, 500W, 240V	1	ALL	913A0092G03
Heater, Oil, 1000W, 240V	1	ALL	913A0092G04
Filter, Coalescing, Convolutod	A/R	ALL	531B0065H01
Gasket, Manway For Coalescer	1	ALL	531A0105H04
Element, Oil Filter, SuperFilter™ (Required for 1-2-3 Warranty)	A/R	ALL	531A0218H01
Gasket, End Cover For 531A0218H01 Above	A/R	ALL	959A0082H01
Gasket, Clamping Plate For 531A0218H01 Above	A/R	ALL	959A0053H01
Seal, Center for 531A0218H01 Above	A/R	ALL	900A0007H01
Gasket, Bottom For 531A0218H01 Above	A/R	ALL	333Q0001236
Shaft Seal Replacement Kit	1	100 & 134	534M0163G02
Shaft Seal Replacement Kit	1	177 - 270	534M0163G03
Shaft Seal Replacement Kit	1	316 - 480	534M0163G04

**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.**

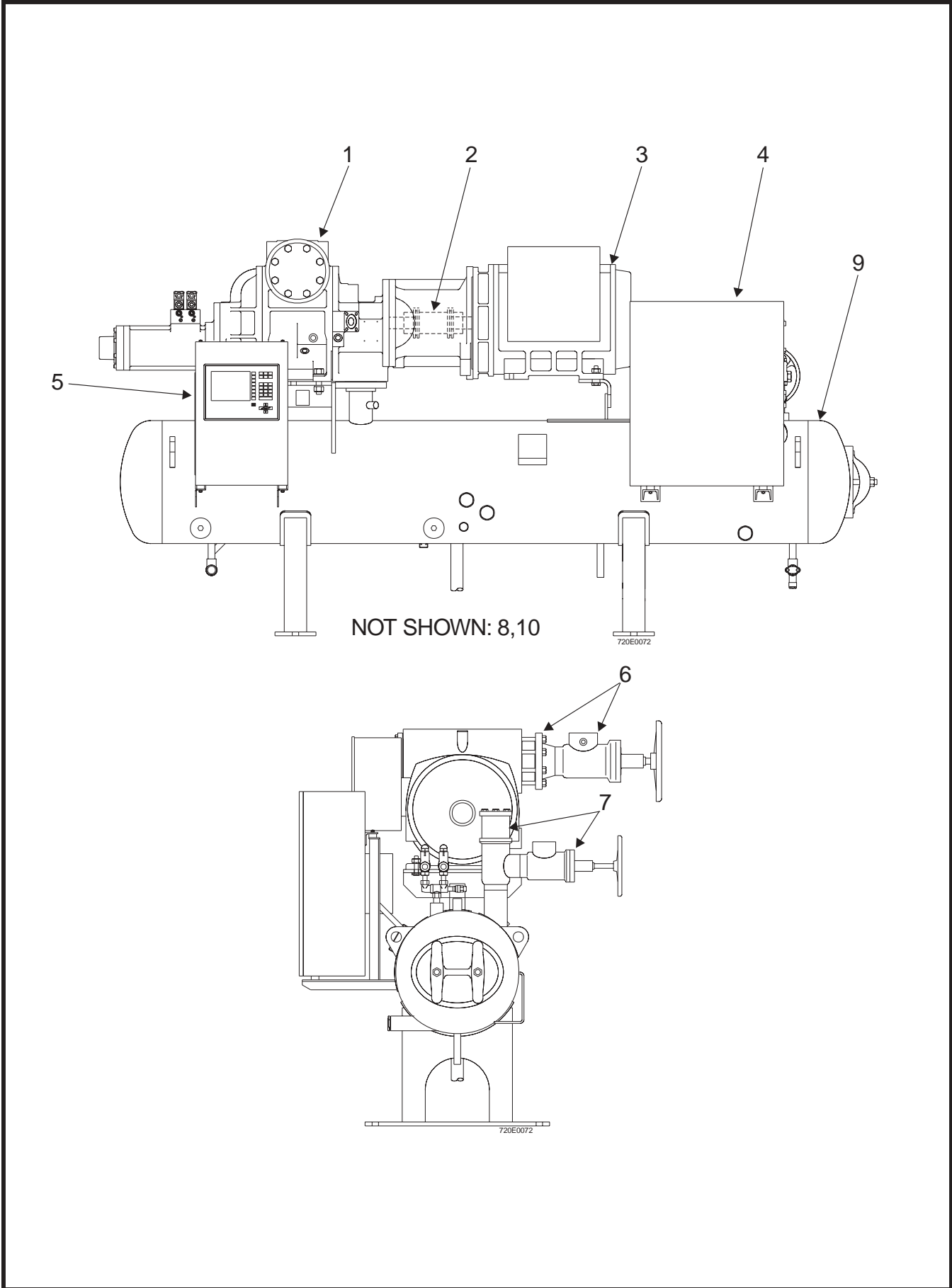


Figure 1. General Arrangement, Typical (100/134 shown).

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
1—	720E0072	General Arrangement, RWF 100 and 134	Ref.	E	
	720E0073	General Arrangement, RWF 177 and 222	Ref.	F	
	720E0074	General Arrangement, RWF 270	Ref.	C	
	720E0075	General Arrangement, RWF 316 and 399	Ref.	B	
	720E0076	General Arrangement, RWF 480	Ref.	B	
—1	—	Compressor, SGC (See Fig. 2)	Ref.		
—2	—	Coupling (See Fig. 12)	Ref.		
—3	Contact Frick	Motor	1		
—4	Contact Frick	Starter, Solid State	1		
—5	640D0133G01	Control Panel, Quantum™ (See Fig. 13)	1		
—6	720M0166G01	Valve Assembly, Suction Stop/Check, 5", 100	Ref.		
	720M0167G01	Valve Assembly, Suction Stop/Check, 6", 134—177	Ref.		
	720M0187G01	Valve Assembly, Suction Stop/Check, 6" w/adapter plate, 222	Ref.		
	720M0182G01	Valve Assembly, Suction Stop/Check, 8", 270 & 316	Ref.		
	720M0182G02	Valve Assembly, Suction Stop/Check, 8", 399-480	Ref.		
	950A0208G01	Valve Assbly, Gram, 5", w/flange (100)	1		
	950A0209G01	Valve Assbly, Gram, 6", w/flange (134—222)	1		
	950A0210G01	Valve Assbly, Gram, 8", w/flange (270 & 316)	1		
	535C0512G01	Valve Assbly, Gram, 10 x 8", w/flange (399)	1		
	82411535509	Valve, Angle, Gram, Stop, 5", HW, WIL, (See Fig. 8)	1		
	82412535609	Valve, Angle, Gram, Stop, 6", HW, WIL, (See Fig. 8)	1		
	82413535809	Valve, Angle, Gram, Stop, 8", HW, WIL, (See Fig. 8)	1		
	956A0033H01	Valve, Swing, Check, 5" (100)	1		
	956A0033H02	Valve, Swing, Check, 6" (134—222)	1		
	956A0033H03	Valve, Swing, Check, 8" (270 & 316)	1		
	956A0033H04	Valve, Swing, Check, 10" (399)	1		
	959A0054H31	Gasket, Flange, 5" (100)	2		
	959A0054H32	Gasket, Flange, 6" (134—222)	2		
	959A0054H33	Gasket, Flange, 8" (270 & 316)	2		
	959A0054H34	Gasket, Flange, 10" (399)	2		
	950A0260G01	Valve Assbly, Danfoss, 5", w/flange (100)	1		
	950A0261G01	Valve Assbly, Danfoss, 6", w/flange (134-177)	1		
	950A0261G03	Valve Assbly, Danfoss, 6", w/flange (222)	1		
	950A0262G01	Valve Assbly, Danfoss, 8", w/flange (270-316)	1		
	582C0034G01	Valve Assbly, Danfoss, 10 x 8", w/flange (399-480)	1		
	950A0240H10	Valve, Angle, Danfoss, 5", HW, WIL	1		
	950A0240H11	Valve, Angle, Danfoss, 6", HW, WIL	1		
	950A0240H12	Valve, Angle, Danfoss, 8", HW, WIL	1		
	956A0033H01	Valve, Swing, Check, 5" (100)	1		
	956A0033H02	Valve, Swing, Check, 6" (134—222)	1		
	956A0033H03	Valve, Swing, Check, 8" (270 & 316)	1		
	956A0033H04	Valve, Swing, Check, 10" (399-480)	1		
	959A0054H31	Gasket, Flange, 5" (100)	1		
	959A0054H32	Gasket, Flange, 6" (134-177)	1		
	959A0054H32	Gasket, Flange, 6" (222)	2		
	959A0054H33	Gasket, Flange, 8" (222)	1		
	959A0054H33	Gasket, Flange, 8" (270-316)	2		
	959A0054H34	Gasket, Flange, 10" (399-480)	1		
	959A0098H01	Gasket, Flange, 10" (399-480)	1		
	913A0110H01	Transducer, Pressure, 0—200 PSIA	1		PE-4

Continued next page.

RWF ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
1—	—	General Arrangement, Continued			
—7	581C0158G01	Valve Assbly, Gram Disch. Stop/Check, 4" HW (High Stage)	1		
	581C0158G03	Valve Assbly, Gram Disch. Stop/Check, 4" HW (Booster)	1		
	581C0159G01	Valve Assbly, Gram Disch. Stop/Check, 5" HW (High Stage)	1		
	581C0159G03	Valve Assbly, Gram Disch. Stop/Check, 5" HW (Booster)	1		
	581C0160G01	Valve Assbly, Gram Disch. Stop/Check, 6" HW (High Stage)	1		
	581C0160G03	Valve Assbly, Gram Disch. Stop/Check, 6" HW (Booster)	1		
	581C0168G01	Valve Assbly, Gram Disch. Stop/Check, 8" HW (High Stage)	1		
	581C0168G03	Valve Assbly, Gram Disch. Stop/Check, 8" HW (Booster)	1		
	82410535409	Valve, Angle, Stop, 4", HW (See Fig. 8)	1		
	82411535509	Valve, Angle, Stop, 5", HW (See Fig. 8)	1		
	82412535609	Valve, Angle, Stop, 6", HW (See Fig. 8)	1		
	82413535809	Valve, Angle, Stop, 8", HW (See Fig. 8)	1		
	82452022400	Valve, Pressure Restricting, 4" (High Stage)*	1		
	82452023400	Valve, Pressure Restricting, 4" (Booster)*	1		
	82452022500	Valve, Pressure Restricting, 5" (High Stage)*	1		
	82452023500	Valve, Pressure Restricting, 5" (Booster)*	1		
	82452022600	Valve, Pressure Restricting, 6" (High Stage)*	1		
	82452023600	Valve, Pressure Restricting, 6" (Booster)*	1		
	82452022800	Valve, Pressure Restricting, 8" (High Stage)*	1		
	82452023800	Valve, Pressure Restricting, 8" (Booster)*	1		
	582C0030G01	Valve Assbly, Danfoss, Disch. Stop/Check, 4" HW (High Stage)	1		
	582C0030G03	Valve Assbly, Danfoss, Disch. Stop/Check, 4" HW (Booster)	1		
	582C0031G01	Valve Assbly, Danfoss, Disch. Stop/Check, 5" HW (High Stage)	1		
	582C0031G03	Valve Assbly, Danfoss, Disch. Stop/Check, 5" HW (Booster)	1		
	582C0032G01	Valve Assbly, Danfoss, Disch. Stop/Check, 6" HW (High Stage)	1		
	582C0032G03	Valve Assbly, Danfoss, Disch. Stop/Check, 6" HW (Booster)	1		
	950A0240H09	Valve, Angle, Stop, 4", HW (See Fig. 9)	1		
	950A0240H10	Valve, Angle, Stop, 5", HW (See Fig. 9)	1		
	950A0240H11	Valve, Angle, Stop, 6", HW (See Fig. 9)	1		
	956A0045H01	Valve, GVD Check, 4" (High Stage)*	1		
	956A0045H02	Valve, GVD Check, 4" (Booster)*	1		
	956A0046H01	Valve, GVD Check, 5" (High Stage)*	1		
	956A0046H02	Valve, GVD Check, 5" (Booster)*	1		
	956A0047H01	Valve, GVD Check, 6" (High Stage)*	1		
	956A0047H02	Valve, GVD Check, 6" (Booster)*	1		
—8	—	Assembly, Filter, Oil, Single (See Fig. 4)	Ref.		
	—	Assembly, Filter, Oil, Dual (See Fig. 5)	Ref.		
—9	—	Assembly, Oil Separator (See Fig. 3)	Ref.		
—10	720D0281	Oil Pump, 100 & 134 (See Fig. 11)	Ref.		
	720D0292	Oil Pump, 177 & 222 (See Fig. 11)	Ref.		
	720D0307	Oil Pump, 270 (See Fig. 11)	Ref.		
	720D0319	Oil Pump, 316 & 399 (See Fig. 11)	Ref.		

\* Contact Frick before servicing.

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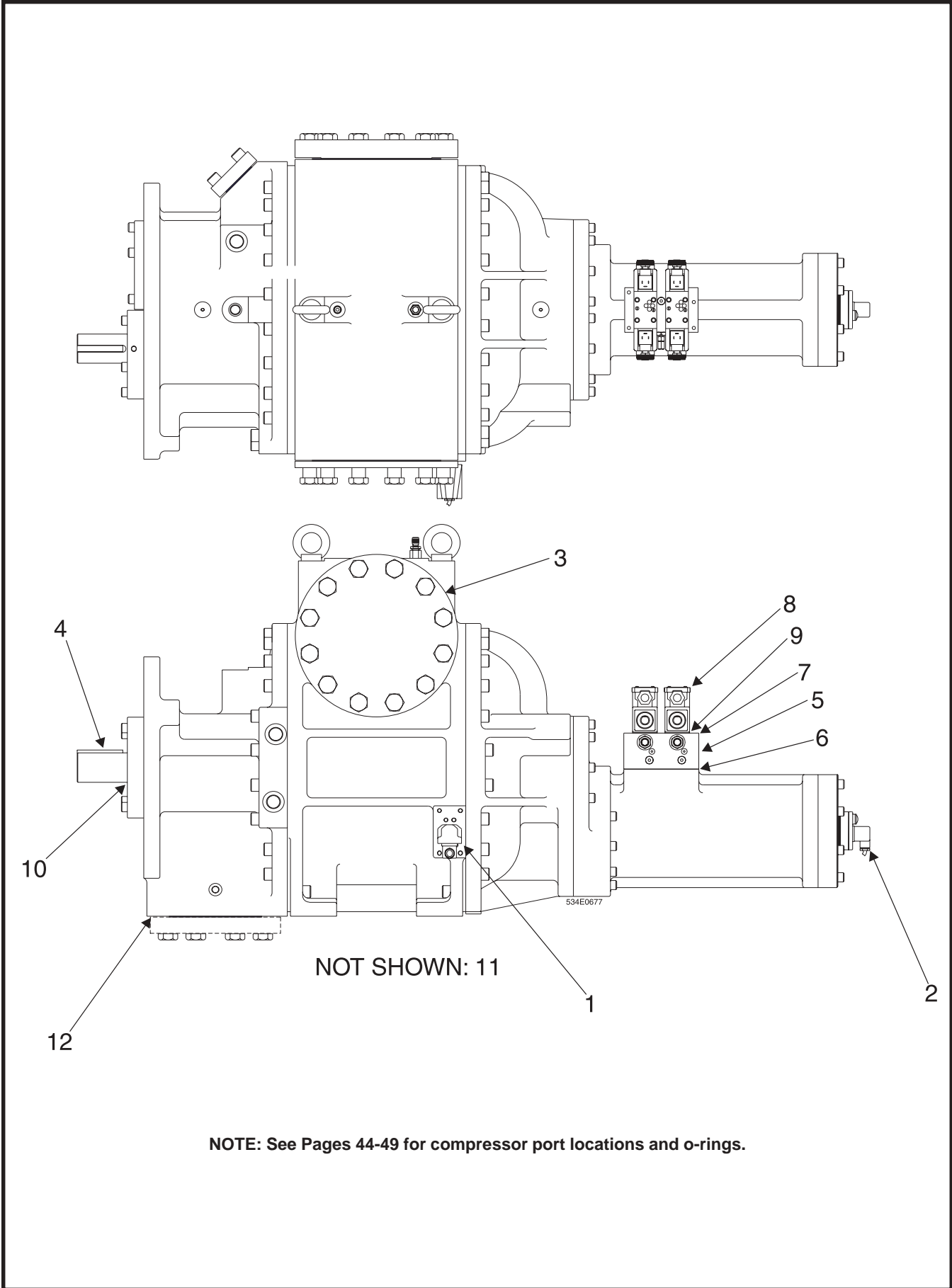


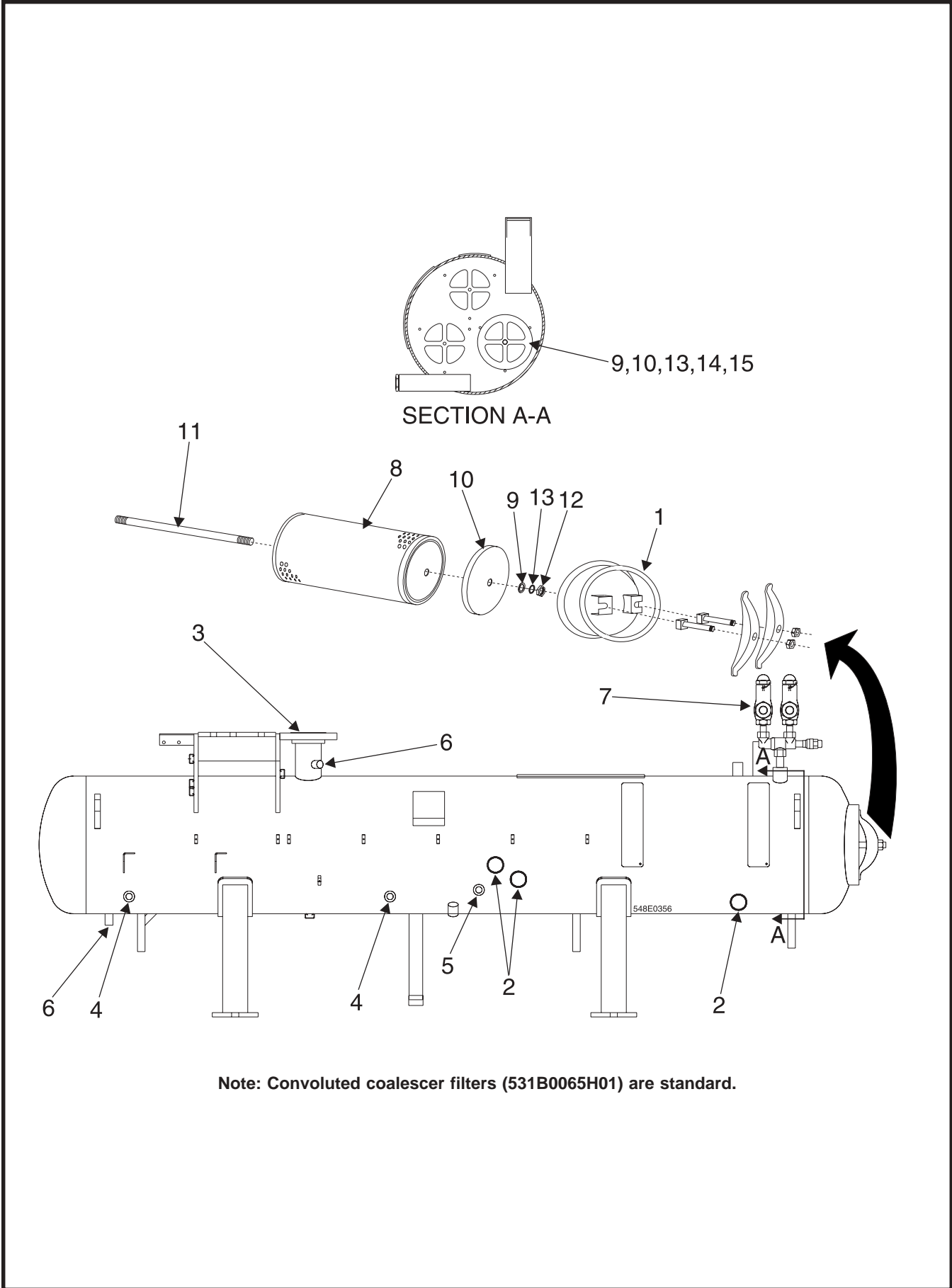
Figure 2. Screw Compressor, Typical (1913/1918 shown).



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
2—	534E0672G01	Screw Compressor Assembly, SGC 1913 (RWF 100)	Ref.	M	
	534E0672G02	Screw Compressor Assembly, SGC 1918 (RWF 134)	Ref.	M	
	534E0697G01	Screw Compressor Assembly, SGC 2313 (RWF 177)	Ref.	M	
	534E0697G02	Screw Compressor Assembly, SGC 2317 (RWF 222)	Ref.	M	
	534E0708G02	Screw Compressor Assembly, SGC 2321 (RWF 270)	Ref.	K	
	534E0753G01	Screw Compressor Assembly, SGC 2813 (RWF 316)	Ref.	E	
	534E0753G02	Screw Compressor Assembly, SGC 2817 (RWF 399)	Ref.	E	
	534D1270G01	Screw Compressor Assembly, SGC 2821 (RWF 480)	Ref.	B	
	—1	534C1478H01	Assembly, Transmitter, Linear* (Slide Stop)	1	
534C1478H02		Transmitter, Linear (less well)	1		
534C1314H01		Rod, Indicator	1		
534A0032H02		Spring	1		
—2	980A0014K60	O-ring	1		
	534D1251H01	Assembly, Slide Valve Linear Transmitter*, ( <b>current, shown</b> )	1		
	534D1251H03	Transmitter, Linear (less well)	1		
	534D0523G02	Kit, Slide Valve Potentiometer ( <b>early</b> )	1		
	534B0501H01	Potentiometer	1		
	534A0046H01	Gasket, Cover	1		
	111Q0451313	Coupling, Flexible	1		
	534B0062C01	Cover, Pot	1		
	913A0095H01	Cable, Slide Valve Potentiometer	1		
	—3	534C1264H01	Strainer, Suction, 1913	1	
959A0054H31		Gasket, Flange, 1913	2		
534C1264H02		Strainer, Suction, 1918 & 2313	1		
959A0054H32		Gasket, Flange, 1918 & 2313	1-3		
534C1264H03		Strainer, Suction, 2317 & 2321	1		
959A0054H33		Gasket, Flange, 2317 & 2321	2		
534C1264H05		Strainer, Suction, 2813	1		
959A0054H33		Gasket, Flange, 2813	3		
534C1264H04		Strainer, Suction, 2817, 2821	1		
959A0054H34		Gasket, Flange, 2817, 2821	2		
—4	534A0662H02	Key, Square, 1913 & 1918	1		
	534A0662H03	Key, Square, 2313, 2317 & 2321	1		
	534A0662H04	Key, Square, 2813, 2817 & 2821	1		
—5	535E0113H01	Block, Manifold	1		
	535E0113H11	Valve, Needle, Flow Regulator	5		
—6	980A0014A60	O-ring, Manifold Block to Compressor	4		
—7	901A0202H20	Capscrew, Socket Head, Manifold Block to Compressor	4		
—8	951A0092H01	Assembly, Valve w/DIN Connector, 120V 60Hz, 110V 50Hz*	2		
	951A0092H04	Coil, 120V 60Hz, 110V 50Hz	4		
	951A0092H02	Assembly, Valve w/DIN Connector, 220V 50Hz, 240V 60Hz*	2		
	951A0092H05	Coil, 220V 50Hz, 240V 60Hz	4		
	951A0092H03	Assembly, Valve w/DIN Connector, 240V 50Hz*	2		
	951A0092H06	Coil, 240V 50Hz	4		
—9	951A0056H34	Seal Kit, Valve	2		
	333Q0000517	Kit, Mounting Hardware, Solenoid Valve to Manifold Block	2		
—10	534M0163G02	Kit, Shaft Seal, 1913 & 1918	1		
	534M0163G03	Kit, Shaft Seal, 2313, 2317 & 2321	1		
	534M0163G04	Kit, Shaft Seal, 2813, 2817 & 2821	1		
—11	913A0110H02	Transducer, Pressure, 0—500 PSIA	1		
—12	959A0054H30	Gasket, Discharge, 1913 & 1918	1		
	959A0054H32	Gasket, Discharge, 2313, 2317, 2321	1		
	959A0054H33	Gasket, Discharge, 2813 & 2817	1		

PE-3

\* DIN Cable Connector: 649A0890H01. DIN 1/2" NPTF Connector: 649A0890H02. DIN Gasket: 649A0890H11



Note: Convuluted coalescer filters (531B0065H01) are standard.

Figure 3. Oil Separator, Typical (24 x 142 3/8" shown).

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
3—	548E0356	Assembly, Oil Separator, 24 x 142 3/8", 100 & 134	Ref.	L	
	548E0357	Assembly, Oil Separator, 30 x 169 3/8", 177 & 222	Ref.	K	
	548E0358	Assembly, Oil Separator, 36 x 188 1/2", 270	Ref.	F	
	548E0361	Assembly, Oil Separator, 36 x 188 1/2", 316 & 399	Ref.	F	
	548E0362	Assembly, Oil Separator, 42 x 192 13/16, 480	Ref.	E	
—1	531A0105H04	Gasket, Manway, 12 x 16"	1		
—2	947A0003H01	Sightglass, Ball Float	3		
—3	959A0054H30	Gasket, Compressor to Separator, 100 & 134	1		
	959A0054H32	Gasket, Compressor to Separator, 177—270	1		
	959A0054H33	Gasket, Compressor to Separator, 316 & 480	1		
—4	913A0092G01	Assembly, Oil Heater, 500W/120V	3		
	913A0047H01	Heater, Oil, 500W/120V	3		
	333Q0001810	Connector, DIN	3		
	913A0092G02	Assembly, Oil Heater, 1000W/120V	3		
	913A0047H02	Heater, Oil, 1000W/120V	3		
	333Q0001810	Connector, DIN	3		
	913A0092G03	Assembly, Oil Heater, 500W/240V	3		
	913A0047H03	Heater, Oil, 500W/240V	3		
	333Q0001810	Connector, DIN	3		
	913A0092G04	Assembly, Oil Heater, 1000W/240V	3		
	913A0047H04	Heater, Oil, 1000W/240V	3		
	333Q0001810	Connector, DIN	3		
—5	913A0123H01	Assembly, Switch, Oil Level Sensing, 24V	1		
	913A0123H11	Sensor Probe less Well	1		
	913A0123H12	Well only	1		
—6	913A0097G01	Assembly, Temperature Sensor <sup>(1)</sup>	4		
	913A0094H01	Temperature Sensor Probe, less Well	1		
	913A0098H01	Well, with cap	1		
	913A0100H01	Thermal Compound	A/R		
—7	580C0358G09	Assembly, Dual Safety Valve, 100—399	1		PSV-1
	955A0012H01	Manifold, Valve, 1/2"	1		
	952A0019H10	Valve, Safety, 1/2", Shank 803-EX, 300 PSIG <sup>(2)</sup>	2		
	580C0357G09	Assembly, Dual Safety Valve, 177—399	1		PSV-1
	955A0012H02	Manifold, Valve, 3/4"	1		
	952A0020H10	Valve, Safety, 3/4", Shank 804-TJ, 300 PSIG <sup>(2)</sup>	2		
	580C0361G09	Assembly, Dual Safety Valve, 270—399	1		PSV-1
	955A0023H01	Manifold, Valve, R.S. M3	1		
	952A0021H09	Valve, Safety, R.S. H3, 300 PSIG <sup>(2)</sup>	2		
	580C0362G09	Assembly, Dual Safety Valve, 480	1		
	955A0024H01	Manifold, Valve, R.S. H4	1		
	952A0022H09	Valve, Safety, R.S. H5, 300 PSIG <sup>(2)</sup>	2		
	580C0400G10	Assembly, Dual Safety Valve, 1/2", 100—480	1		PSV-1
	955A0012H01	Manifold, Valve, 1/2"	1		
	952A0051H10	Valve, Safety, 1/2 x 1": FPT, Shank 813, 300 PSIG <sup>(2)</sup>	2		
	580C0401G10	Assembly, Dual Safety Valve, 3/4", 222—480	1		PSV-1
	955A0012H02	Manifold, Valve, 3/4"	1		
	952A0052H10	Valve, Safety, 3/4 x 1-1/4" FPT, Shank 814, 300 PSIG <sup>(2)</sup>	2		

1. Order 649A0994H01 Temperature Sensor Retrofit to replace probe only, on earlier units with 913A0101H01 Temperature Sensor Assbly.  
2. Shank 813, 814, 815, 851, and 903 valves usage began in May 2002. Shank 813 valves are a direct replacement for Shank 803 valves. Shank 814 valves are a direct replacement for Shank 804 valves. Contact Frick Service for larger valves.  
3. Quantity of coalescing filters may be five, depending on operating conditions of your unit.

RWF ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
3—	—	Assembly, Oil Separator (continued)	Ref.		
—7	580C0402G10	Assembly, Dual Safety Valve, 1", 399—480	1		PSV-1
	955A0012H03	Manifold, Valve, 1"	1		
	952A0053H10	Valve, Safety, 1 x 1-1/2" FPT, Shank 815, 300 PSIG <sup>(2)</sup>	2		
	580C0404G07	Assembly, Dual Safety Valve, 1", 480	1		PSV-1
	955B0001H02	Manifold, 1-1/4 PIPE x 1" FPT	1		
	952A0055H07	Valve, Safety, 1 x 2" NPT, Shank 851, 300 PSIG <sup>(2)</sup>	2		
	580C0407G07	Assembly, Dual Safety Valve, 1-1/2"	1		PSV-1
	955B0002H02	Manifold, 2" PIPE x 1-1/2 FPT	1		
	952A0058H07	Valve, Safety, 1-1/2 x 2" FPT, Shank 903, 300 PSIG <sup>(2)</sup>	2		
—8	531B0019H01	Filter, Coalescing, Nonconvoluted, 100 & 134	3		
	531B0065H01	Filter, Coalescing, Convoluted, 100 & 134	3		
	531B0019H01	Filter, Coalescing, Nonconvoluted, 177 & 222	4		
	531B0065H01	Filter, Coalescing, Convoluted, 177 & 222	4		
	531B0019H01	Filter, Coalescing, Nonconvoluted, 270—399	5		
	531B0065H01	Filter, Coalescing, Convoluted, 270—399	5		
	531B0019H01	Filter, Coalescing, Nonconvoluted, 480 <sup>(3)</sup>	6		
	531B0065H01	Filter, Coalescing, Convoluted, 480 <sup>(3)</sup>	6		
—9	540D0217H06	Washer, Seal	1 per		
—10	540D0217G02	Retainer, Filter (end plate)	1 per		
—11	540D0217G03	Stud 1/2-13NC x 37"	1 per		
—12	902A0021H01	Nut, Hex 1/2-13NC	1 per		
—13	905A0012H05	Washer 1/2"	1 per		
—14	901A0045D04	Capscrew, Hex Head, 1/4 x 1-1/4"	1 per		
—15	959A0065H02	Gasket, 9-3/8 OD (for unused coalescer filter opening)	1 per		

1. Order 649A0994H01 Temperature Sensor Retrofit to replace probe only, on earlier units with 913A0101H01 Temperature Sensor Assbly.
2. Shank 813, 814, 815, 851, and 903 valves usage began in May 2002. Shank 813 valves are a direct replacement for Shank 803 valves. Shank 814 valves are a direct replacement for Shank 804 valves. Contact Frick Service for larger valves.
3. Quantity of coalescing filters may be five, depending on operating conditions of your unit.

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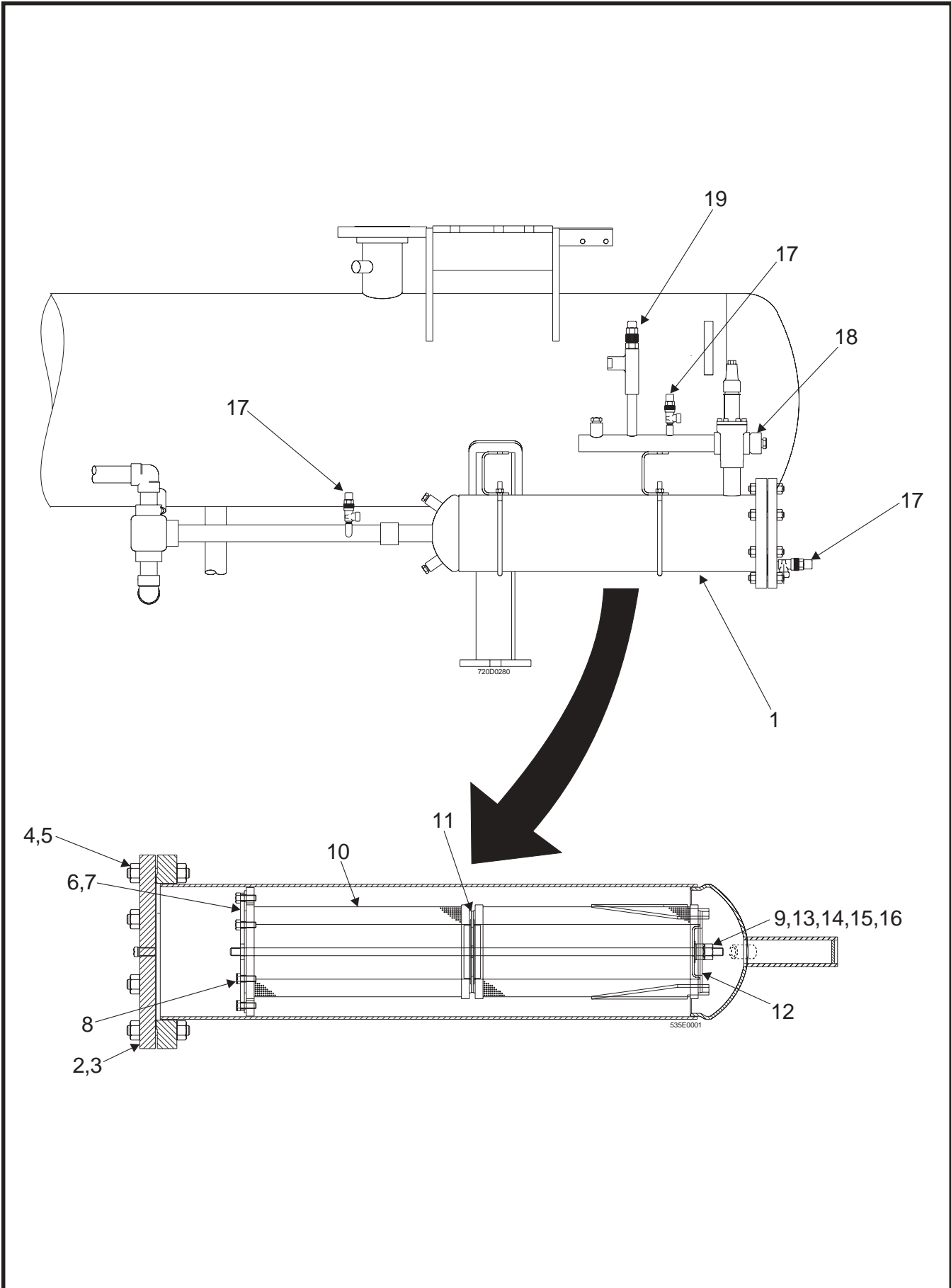


Figure 4. Oil Filter, Typical (100/134 shown).

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
4—	720D0280	Assembly, Single Oil Filter, 100 & 134	Ref.	C	
	720D0291	Assembly, Single Oil Filter, 177 & 222	Ref.	C	
	720D0306	Assembly, Single Oil Filter, 270—399	Ref.	D	
	720D0331	Assembly, Single Oil Filter, 480	Ref.	A	
—1	553E0001	Assembly, Filter, 100 & 134	1		
	553E0004	Assembly, Filter, 177 & 222	1		
	553E0003	Assembly, Filter, 270—480	1		
—2	959A0082H01	Gasket	1		
—3	553A0001H01	Cover, End	1		
—4	901A0098H11	Stud, 5/8-11 x 4"	8		
—5	902A0021H03	Nut, 5/8-11 UNC	16		
—6	535A0144H01	Plate, Clamping	1		
—7	959A0053H01	Gasket	1		
—8	901A0043D05	Capscrew, Hex Head, 3/8-16 x 1"	6		
—9	333Q0001268	Rod, Threaded, 1/2-13 x 31-1/2"	1		
—10	531A0218H01	Element, SuperFilter™ (Required for 1-2-3 Warranty)	2-3		
—11	900A0007H01	Seal, Center	1-2		
—12	900A0008H01	Yoke, Bottom	1		
—13	333Q0001236	Gasket	1		
—14	905A0007H05	Washer, Flat, 1/2"	1		
—15	333Q0001237	Washer, Starlock, 1/2"	1		
—16	902A0021H01	Nut, 1/2-13 UNC	2		
—17	957A0003H01	Valve, Angle, SC, 1/4" NPT	3		
	913A0110H02	Transducer, Pressure, 0—500 PSIA	2		
—18	82406549809	Valve, Angle, Gram, SC, 1-1/2" SW, 100 & 134	1		PE-1,2
	82407549909	Valve, Angle, Gram, SC, 2" SW, 177 & 222	1		
	82408536209	Valve, Angle, Gram, SC, 2-1/2" BW, 270—399	1		
	950A0233H05	Valve, Angle, Danfoss, SC, 1-1/2" SW, 100 & 134	1		
	950A0233H06	Valve, Angle, Danfoss, SC, 2" SW, 177 & 222	1		
	950A0241H07	Valve, Angle, Danfoss, SC, 2-1/2" BW, 270—480	1		
—19	954A0059H01	Valve, Angle, SC, Hansen, Hand Exp., 1" SW, 100—222	1		
	954A0047H01	Valve, Angle, SC, Hansen, Hand Exp., 1-1/2" SW, 270—480	1		

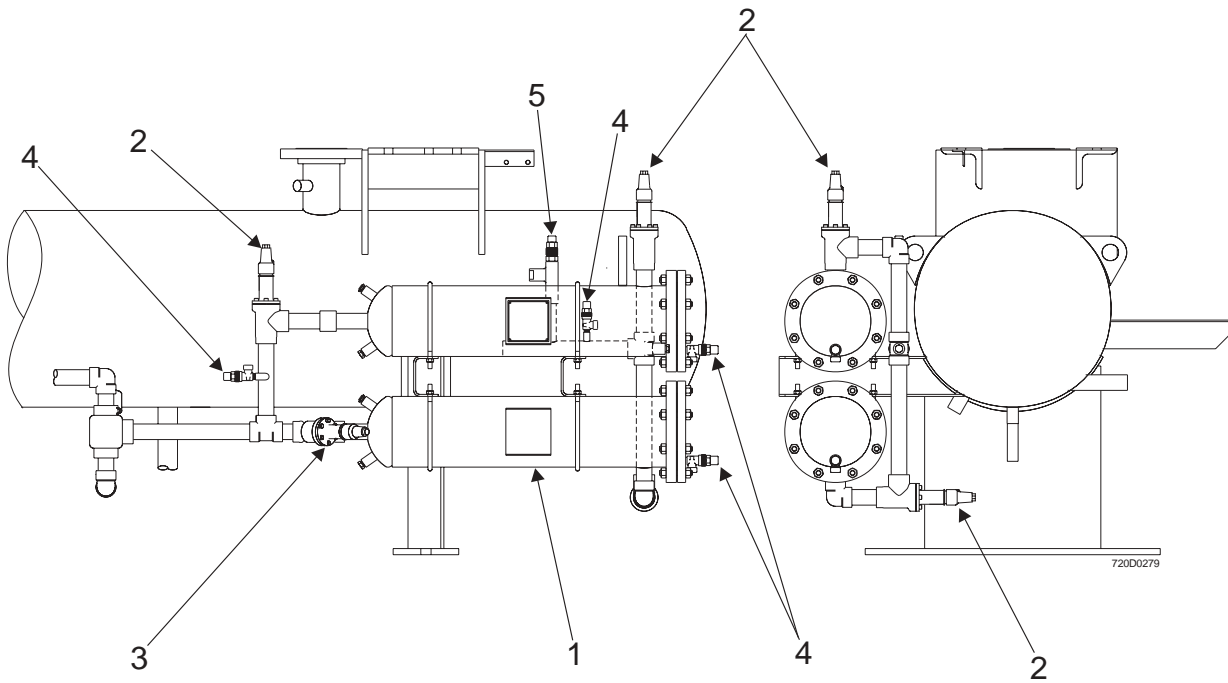


Figure 5. Dual Oil Filters, Typical (100/134 shown).



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
5—	720D0279	Dual Oil Filters, 100 and 134	Ref.	C	
	720D0290	Dual Oil Filters, 177 and 222	Ref.	C	
	720D0305	Dual Oil Filters, 270—399	Ref.	D	
	720D0330	Dual Oil Filters, 480	Ref.	A	
—1	553E0001	Assembly, Filter, 100 & 134 (See Figure 4)	2		
	553E0004	Assembly, Filter, 177 & 222 (See Figure 4)	2		
	553E0003	Assembly, Filter, 270—480 (See Figure 4)	2		
—2	82406549809	Valve, Angle, Gram, SC, 1-1/2" SW, 100 & 134	3		
	82407549909	Valve, Angle, Gram, SC, 2" SW, 177 & 222	3		
	82408536209	Valve, Angle, Gram, SC, 2-1/2" BW, 270—399	3		
	950A0233H05	Valve, Angle, Danfoss, SC, 1-1/2" SW, 100 & 134	3		
	950A0233H06	Valve, Angle, Danfoss, SC, 2" SW, 177 & 222	3		
	950A0241H07	Valve, Angle, Danfoss, SC, 2-1/2" BW, 270—480	3		
—3	82406551209	Valve, Globe, Gram, SC, 1-1/2" SW, 100 & 134	1		
	82407551309	Valve, Globe, Gram, SC, 2" SW, 177 & 222	1		
	82408538209	Valve, Globe, Gram, SC, 2-1/2" BW, 270—399	1		
	950A0245H05	Valve, Globe, Danfoss, SC, 1-1/2" SW, 100 & 134	1		
	950A0245H06	Valve, Globe, Danfoss, SC, 2" SW, 177 & 222	1		
	950A0253H07	Valve, Globe, Danfoss, SC, 2-1/2" BW, 270—480	1		
—4	957A0003H01	Valve, Angle, Gram, SC, 1/4" NPT	4		
	913A0110H02	Transducer, Pressure, 0—500 PSIA	2		
—5	954A0059H01	Valve, Angle, SC, Hansen, Hand Exp., 1" SW, 100—222	1		
	954A0047H01	Valve, Angle, SC, Hansen, Hand Exp., 1-1/2" SW, 270—480	1		

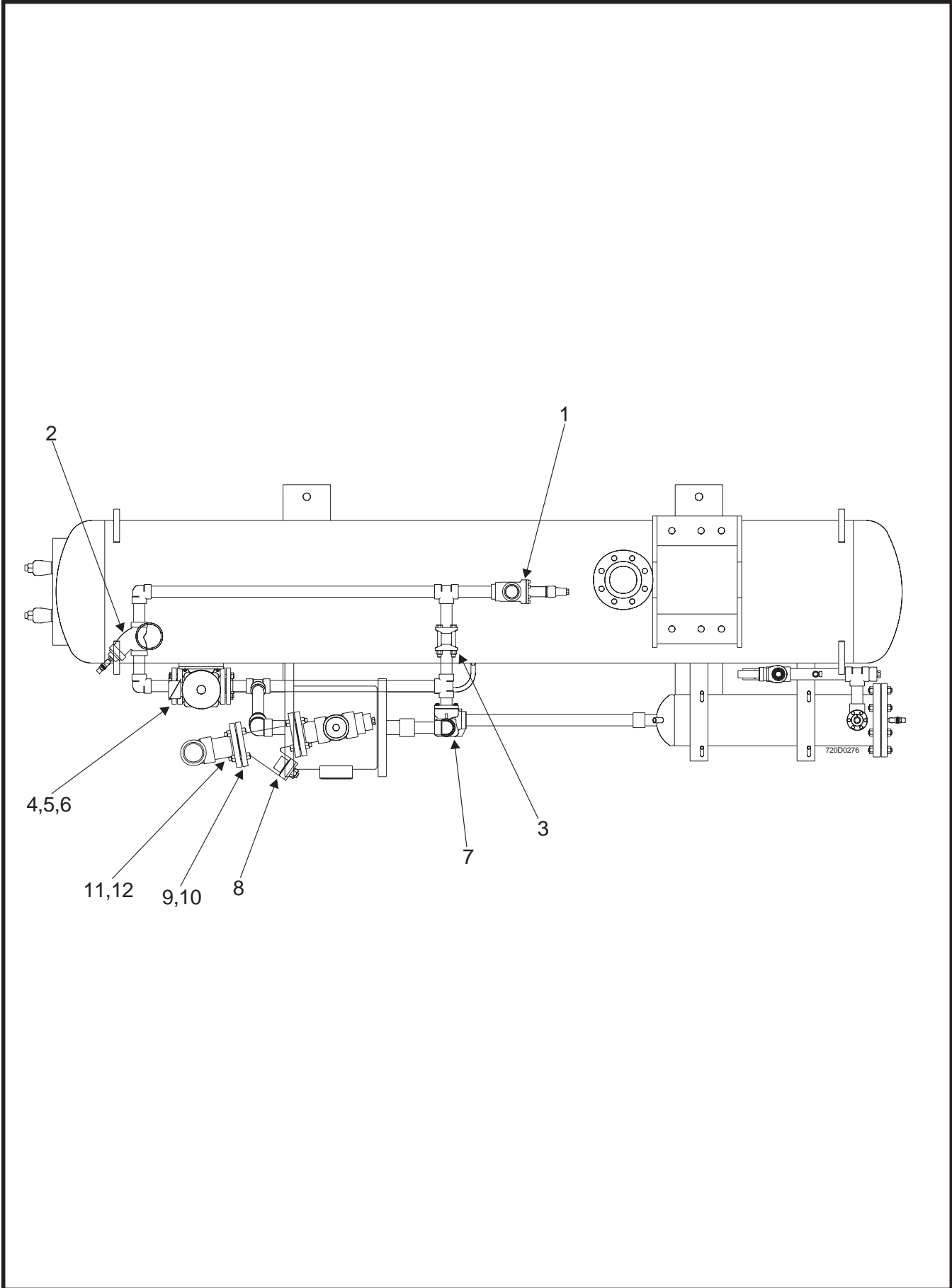


Figure 6. Oil Cooler Piping, Typical (116 Plate WCOC Shown).

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.	
6—	—	Mounting and Piping Plate WCOC	Ref.			
	—	WCOC with Temp. Control Valve & Oil Pump	Ref.			
	—	Mounting and Piping TSOC with Pump	Ref.			
	—	TSOC with Temp. Control Valve and Oil Pump	Ref.			
	—	Mounting and Piping WCOC with Pump	Ref.			
—1	82407549909	Valve, Angle, Gram, Shutoff, 2" SW, SC	1			
	82408536209	Valve, Angle, Gram, Shutoff, 2-1/2" BW, SC	1			
	950A0233H06	Valve, Angle, Danfoss, Shutoff, 2" SW, SC	1			
	950A0241H07	Valve, Angle, Danfoss, Shutoff, 2-1/2" BW, SC	1			
—2	950A0069H07	Strainer, 1-1/2", SW	1			
	950A0069H25	Gasket, Strainer, 1-1/2 & 2"	1			
	950A0069H37	Screen, Strainer, 1-1/2"	1			
	950A0069H08	Strainer, 2", SW	1			
	950A0069H25	Gasket, Strainer, 1-1/2 & 2"	1			
	950A0069H38	Screen, Strainer, 2"	1			
	957A0003H01	Valve, Angle, SC, 1/4" NPT	1			
	950A0055H07	Strainer, 2-1/2", SW	1			
	950A0055H27	Kit, Screen, Strainer, 2-1/2"	1			
	957A0003H01	Valve, Angle, SC, 1/4" NPT	1			
	950A0055H16	Gasket, Flange	2			
	—3	956A0012G03	Valve, Check, 1-1/2" SW	1		
		956A0012G10	Valve, Check, 2" SW	1		
956A0012G05		Valve, Check, 2-1/2" SW	1			
—4	944A0108H05	Flange, 1-1/2" SW, 300#	2			
	944A0108H07	Flange, 2-1/2" SW, 300#	2			
—5	959A0054H25	Gasket, 1-1/2" SW, 300# Flange	2			
	959A0054H27	Gasket, 2-1/2" SW, 300# Flange	2			
—6	901A0172H03	Kit, Flange Bolt, 1-1/2", 300#	2			
	901A0172H05	Kit, Flange Bolt, 2-1/2", 300#	2			
—7	950A0195H01	Valve, Temperature Control, 1-1/2"	1			
	950A0195H11	Kit, Service, Temperature Control Valve, 1-1/2 & 2"*	1			
	950A0195H02	Valve, Temperature Control, 2"	1			
	950A0195H11	Kit, Service, Temperature Control Valve, 1-1/2 & 2"*	1			
	950A0222H01	Valve, Temperature Control, 2-1/2"	1			
	950A0222H11	Kit, Service, Temperature Control Valve, 2-1/2"*	1			
—8	950A0075H06	Strainer, 2", 150# Flange, WCOC	1			
	950A0075H26	Screen, 2" Strainer	1			
	950A0075H46	Gasket, 2" Strainer	1			
	950A0075H08	Strainer, 3", 150# Flange, WCOC	1			
	950A0075H28	Screen, 3" Strainer	1			
	950A0075H48	Gasket, 3" Strainer	1			
	950A0075H09	Strainer, 4", 150# Flange, WCOC	1			
	950A0075H29	Screen, 4" Strainer	1			
	950A0075H49	Gasket, 4" Strainer	1			

\* Kit includes thermostat and gasket

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FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
—6	—	Oil Cooler Piping, Continued	Ref.		
—9	944A0126H06	Flange, 2", SW, 150#, WCOC	2		
	944A0126H08	Flange, 3", SW, 150#, WCOC	2		
—10	959A0054H06	Gasket, Flange, Strainer, 2", WCOC	2		
	959A0054H08	Gasket, Flange, Strainer, 3", WCOC	2		
—11	901A0046D08	Capscrew, Hex Head, 5/8 x 2-3/4" (2" Flange)	8		
	901A0046D09	Capscrew, Hex Head, 5/8 x 3" (3" Flange)	8		
—12	902A0021H03	Nut, Hi-tensile, 5/8-11"	8		

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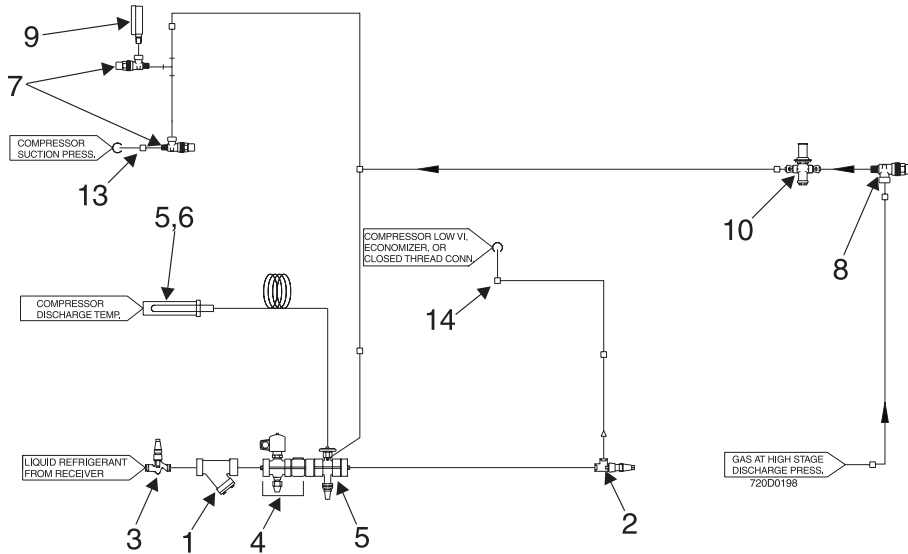


Figure 7a. 720D0198 Liquid Injection, Single Port, Socket Weld

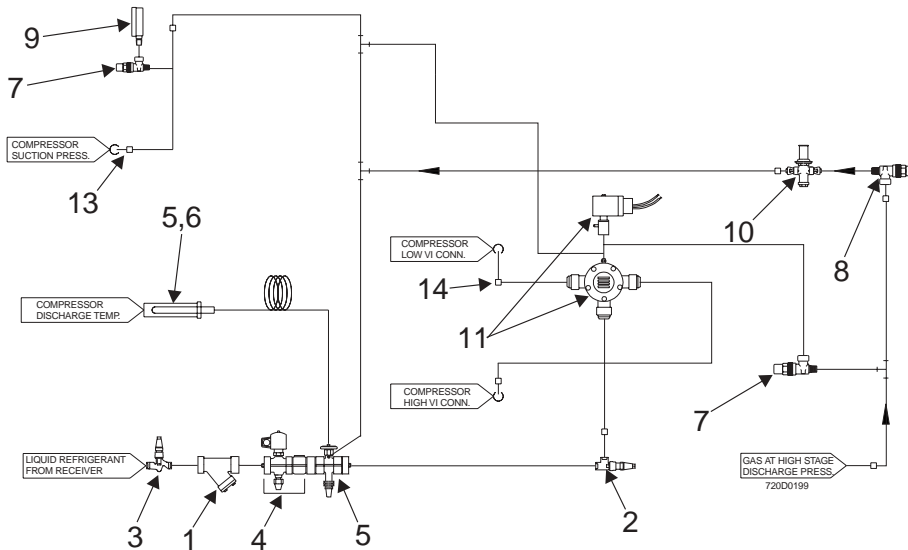


Figure 7b. 720D0199 Liquid Injection, Dual Port, Socket Weld

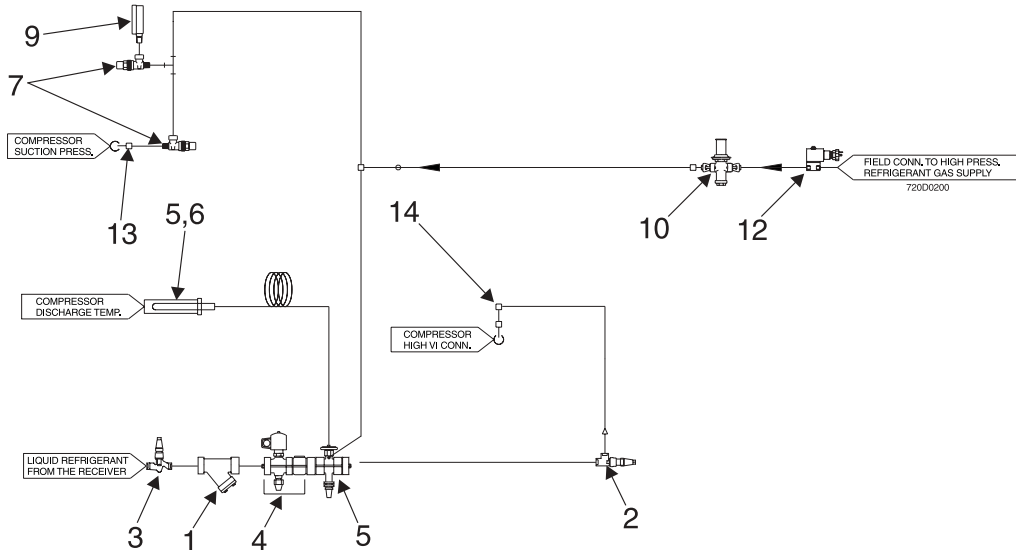


Figure 7c. 720D0200 Liquid Injection, Booster, Socket Weld

Figure 7. Liquid Injection.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
7—	720D0198	Liquid Injection, Single Port, Socket Weld	Ref.	D	
	720D0199	Liquid Injection, Dual Port, Socket Weld	Ref.	E	
	720D0200	Liquid Injection, Booster, Socket Weld	Ref.	D	
—1	950A0069H03	Strainer, 1/2 "	1		
	950A0069H21	Gasket	1		
	950A0069H33	Screen	1		
	950A0069H04	Strainer, 3/4 "	1		
	950A0069H22	Gasket	1		
	950A0069H34	Screen	1		
	950A0069H05	Strainer, 1 "	1		
	950A0069H23	Gasket	1		
	950A0069H35	Screen	1		
—2	950A0117H02	Valve, Angle, Herl, SC, 1/2 " SW	1		
	950A0119H02	Valve, Angle, Herl, SC, 3/4 " SW	1		
	950A0121H02	Valve, Angle, Herl, SC, 1 " SW	1		
	82402549409	Valve, Angle, Gram, SC, 1/2 " SW	1		
	82403549509	Valve, Angle, Gram, SC, 3/4 " SW	1		
	82404549609	Valve, Angle, Gram, SC, 1 " SW	1		
	950A0233H01	Valve, Angle, Danfoss, SC, 1/2 " SW	1		
	950A0233H02	Valve, Angle, Danfoss, SC, 3/4 " SW	1		
	950A0233H03	Valve, Angle, Danfoss, SC, 1 " SW	1		
—3	950A0118H02	Valve, Globe, Herl, SC, 1/2 " SW	1		
	950A0120H02	Valve, Globe, Herl, SC, 3/4 " SW	1		
	950A0122H02	Valve, Globe, Herl, SC, 1 " SW	1		
	82402550809	Valve, Globe, Gram, SC, 1/2 " SW	1		
	82403550909	Valve, Globe, Gram, SC, 3/4 " SW	1		
	82404551009	Valve, Globe, Gram, SC, 1 " SW	1		
	950A0245H01	Valve, Globe, Danfoss, SC, 1/2 " SW	1		
	950A0245H02	Valve, Globe, Danfoss, SC, 3/4 " SW	1		
	950A0245H03	Valve, Globe, Danfoss, SC, 1 " SW	1		
—4	950A0190G01	Kit, Solenoid, used w/1/2 " SW TX Valve DAE 2—15, R-717	Ref.		YY5
	950A0190H11	Valve, Solenoid, less Coil <sup>(1)</sup>	1		
	950A0215G01	Assembly, Solenoid Coil	1		
	950A0190H01	Coil, 120V	1		
	333Q0001810	Connector, DIN	1		
	950A0215G02	Assembly, Solenoid Coil	1		
	950A0190H02	Coil, 240V	1		
	333Q0001810	Connector, DIN	1		
	959A0089H03	Gasket, Flange	2		
	947A0010H01	Sight Glass	1		
	950A0190G02	Kit, Solenoid, used w/3/4 " SW TX Valve AAE 20—50, R-717	Ref.		YY5
	950A0190H13	Valve, Solenoid, less Coil <sup>(1)</sup>	1		
	950A0215G01	Assembly, Solenoid Coil	1		
	950A0190H01	Coil, 120V	1		
	333Q0001810	Connector, DIN	1		
	950A0215G02	Assembly, Solenoid Coil	1		
	950A0190H02	Coil, 240V	1		
	333Q0001810	Connector, DIN	1		
	959A0089H02	Gasket, Flange	2		
	947A0010H02	Sight Glass	1		

Continued next page.

\* Not included with Solenoid Kit

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FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
7—	—	Liquid Injection, Continued			
—4	950A0190G03	Kit, Solenoid, used w/1" SW TX Valve AAE 75—100, R-717	Ref.		YY5
	950A0190H13	Valve, Solenoid, less Coil <sup>(1)</sup>	1		
	950A0215G01	Assembly, Solenoid Coil	1		
	950A0190H01	Coil, 120V	1		
	333Q0001810	Connector, DIN	1		
	950A0215G02	Assembly, Solenoid Coil	1		
	950A0190H02	Coil, 240V	1		
	333Q0001810	Connector, DIN	1		
	959A0089H02	Gasket, Flange	2		
	947A0010H02	Sight Glass	1		
—5	954A0053H01	Valve, Thermostatic Expansion, Ammonia, DAE-2 <sup>(2)</sup>	1		TX
	954A0053H20	Element, Power, Replacement	1		
	959A0089H03	Gasket, Flange	2		
	954A0053H02	Valve, Thermostatic Expansion, Ammonia, DAE-5 <sup>(2)</sup>	1		TX
	954A0053H20	Element, Power, Replacement	1		
	959A0089H03	Gasket, Flange	2		
	954A0053H03	Valve, Thermostatic Expansion, Ammonia, DAE-10 <sup>(2)</sup>	1		TX
	954A0053H20	Element, Power, Replacement	1		
	959A0089H03	Gasket, Flange	2		
	954A0053H04	Valve, Thermostatic Expansion, Ammonia, DAE-15 <sup>(2)</sup>	1		TX
	954A0053H20	Element, Power, Replacement	1		
	959A0089H03	Gasket, Flange	2		
	954A0053H05	Valve, Thermostatic Expansion, Ammonia, AAE-20 <sup>(2)</sup>	1		TX
	954A0053H30	Element, Power, Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0053H06	Valve, Thermostatic Expansion, Ammonia, AAE-30 <sup>(2)</sup>	1		TX
	954A0053H30	Element, Power, Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0053H07	Valve, Thermostatic Expansion, Ammonia, AAE-50 <sup>(2)</sup>	1		TX
	954A0053H30	Element, Power, Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0053H08	Valve, Thermostatic Expansion, Ammonia, AAE-75 <sup>(2)</sup>	1		TX
	954A0053H30	Element, Power, Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0053H09	Valve, Thermostatic Expansion, Ammonia, AAE-100 <sup>(2)</sup>	1		TX
	954A0053H30	Element, Power, Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0054H01	Valve, Thermostatic Expansion, Halocarbon, HVE-2-1/2 <sup>(2)</sup>	1		TX
	954A0054H20	Element, Power Replacement	1		
	959A0089H04	Gasket, Flange	2		
	954A0054H02	Valve, Thermostatic Expansion, Halocarbon, HVE-5-1/2 <sup>(2)</sup>	1		TX
	954A0054H20	Element, Power Replacement	1		
	959A0089H04	Gasket, Flange	2		
	954A0054H03	Valve, Thermostatic Expansion, Halocarbon, HVE-11 <sup>(2)</sup>	1		TX
	954A0054H20	Element, Power Replacement	1		
	959A0089H04	Gasket, Flange	2		
	954A0054H04	Valve, Thermostatic Expansion, Halocarbon, HVE-16 <sup>(2)</sup>	1		TX
	954A0054H20	Element, Power Replacement	1		
	959A0089H04	Gasket, Flange	2		
	954A0054H05	Valve, Thermostatic Expansion, Halocarbon, MVE-21 <sup>(2)</sup>	1		TX
	954A0054H30	Element, Power Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0054H06	Valve, Thermostatic Expansion, Halocarbon, MVE-34 <sup>(2)</sup>	1		TX
	954A0054H30	Element, Power Replacement	1		
	959A0089H02	Gasket, Flange	2		

1. Not included with Solenoid Kit

2. TX Valves are not identifiable in the field. Contact Frick Service for assistance.



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
	954A0054H07	Valve, Thermostatic Expansion, Halocarbon, VVE-52 <sup>(2)</sup>	1		TX
	954A0054H30	Element, Power Replacement	1		
	959A0089H02	Gasket, Flange	2		
	954A0054H08	Valve, Thermostatic Expansion, Halocarbon, VVE-70 <sup>(2)</sup>	1		TX
	954A0054H30	Element, Power Replacement	1		
	959A0089H01	Gasket, Flange	2		
	954A0054H09	Valve, Thermostatic Expansion, Halocarbon, VVE-100 <sup>(2)</sup>	1		TX
	954A0054H30	Element, Power Replacement	1		
	959A0089H01	Gasket, Flange	2		
—6	531A0139H01	Well, Standard TX Valve	1		
	980A0012K62	O-ring, Well	1		
—7	957A0003H01	Valve, Angle, SC, 1/4" MPT x 1/4" FPT	1		
—8	957A0003H02	Valve, Angle, SC, 3/8" MPT x 3/8" FPT	1		
—9	990A0011H02	Gauge, Pressure	1		
—10	954A0008H01	Regulator, Pressure	1		
	954A0008H02	Element, Replacement	1		
	954A0008H03	Gasket, Flange	2		
—11	951A0053G01	Solenoid Valve, 3-Way, R-717, R-22 (Plus Fittings)	1		YY-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		
—12	951A0094H01	Valve, Solenoid, 110/50 & 120/60	1		YY-10
	951A0094H11	Coil, 110/50 & 120/60	1		
	333Q0001810	Connector, DIN	1		
	951A0094H02	Valve, Solenoid, 208/60	1		YY-10
	951A0094H12	Coil, 208/60	1		
	333Q0001810	Connector, DIN	1		
	951A0094H03	Valve, Solenoid, 440/50 & 480/60	1		YY-10
	951A0094H13	Coil, 440/50 & 480/60	1		
	333Q0001810	Connector, DIN	1		
	951A0094H04	Valve, Solenoid, 220/50 & 240/60	1		YY-10
	951A0094H14	Coil, 220/ & 240/60	1		
	333Q0001810	Connector, DIN	1		
—13	980A0012K60	O-ring, Reducer	1		
—14	980A0012K66	O-ring, Elbow	1-2		
	980A0012K69	O-ring, Elbow	1-2		

1. Not included with Solenoid Kit      2. TX Valves are not identifiable in the field. Contact Frick Service for assistance.

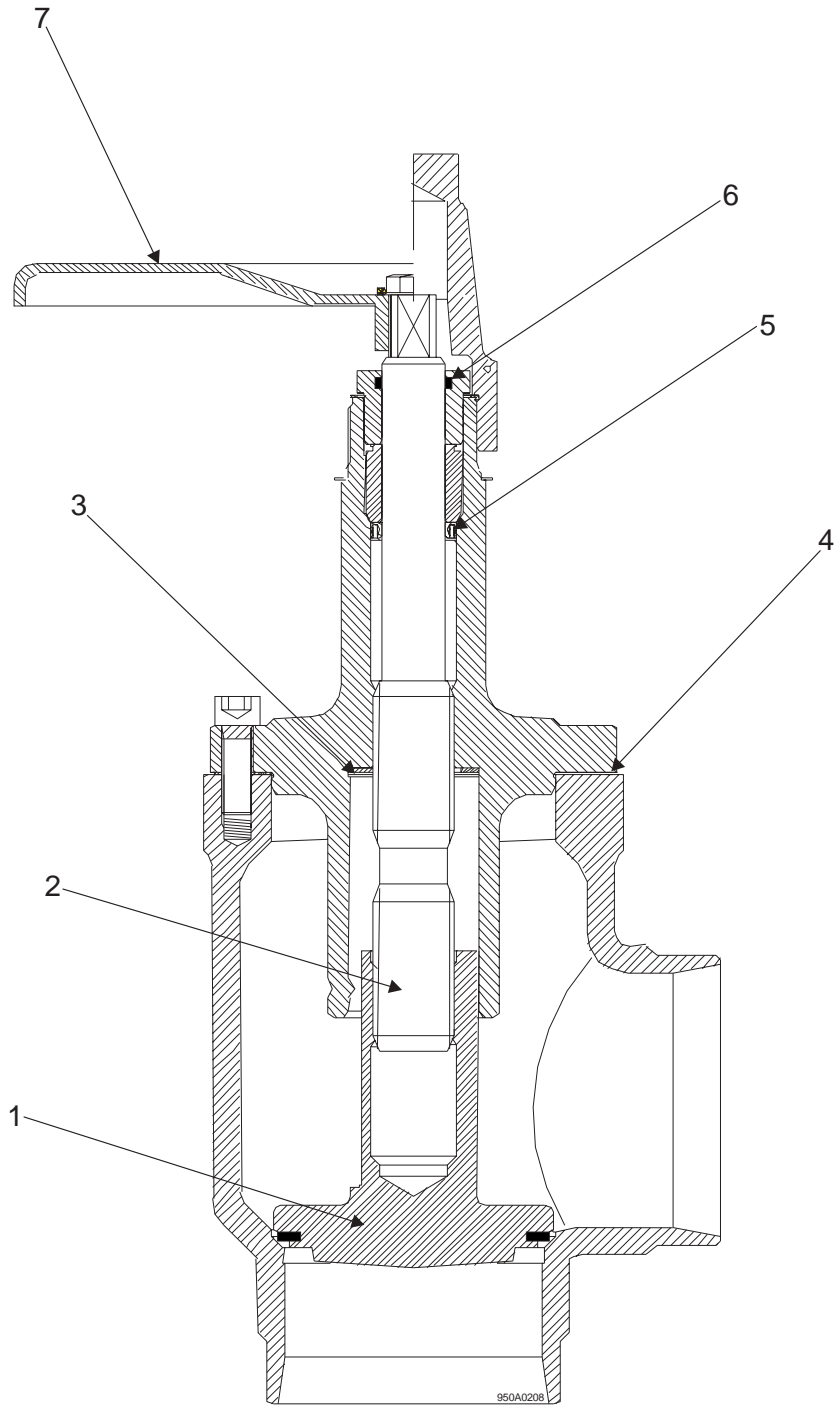


Figure 8. Suction Stop Valve, Gram.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
8—	82410535409	Valve, Stop, Discharge, 4", HW	1		
	82411535509	Valve, Stop, Suction/Discharge, 5", HW	1		
	82412535609	Valve, Stop, Suction, 6", HW	1		
	82413535809	Valve, Stop, Suction, 8", HW	1		
—1	724001878GR	Cone, Complete, 4"	1		
	724001879GR	Cone, Complete, 5"	1		
	724001880GR	Cone, Complete, 6"	1		
	724001881GR	Cone, Complete, 8"	1		
—2	724001424GR	Spindle, 4"	1		
	724001425GR	Spindle, 5"	1		
	724001426GR	Spindle, 6"	1		
	724001428GR	Spindle, 8"	1		
—3	*	Gasket, Backstop, PTFE	1		
—4	*	Gasket, Top	1		
—5	*	U-sleeve, PTFE	1		
—6	*	O-ring	1		
—7	724008102GR	Handwheel, 4", including hardware	1		
	724008127GR	Handwheel, 5 & 6", including hardware	1		
	724008202GR	Handwheel, 8", including hardware	1		
*	724008100GR	Kit, Gasket, 4"	1		
	724008125GR	Kit, Gasket, 5"	1		
	724008150GR	Kit, Gasket, 6"	1		
	724008200GR	Kit, Gasket, 8"	1		
		NOT SHOWN:			
	951A0006H07	Valve, Solenoid, Power Assist, Less Coil	1		
	951A0009H03	Coil, 60/230VAC	1		
	951A0009H07	Coil, 50/115VAC	1		
	951A0009H05	Coil, 50/230VAC	1		

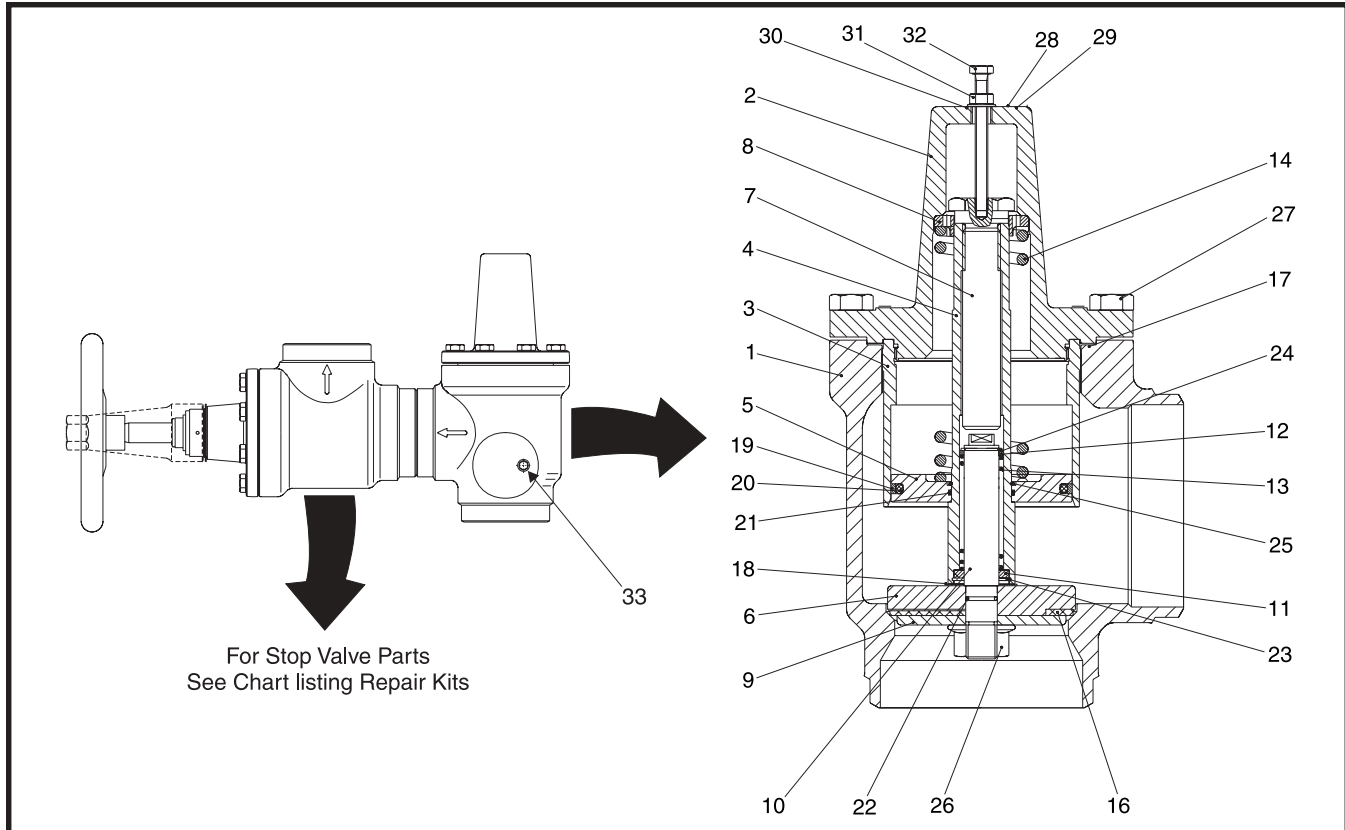


Figure 9. Discharge Stop/Check Valve, Current (Danfoss).

STOP VALVE ONLY							
VALVE	DESCR.	SIZE	COMPLETE SPARES KIT <sup>(1)</sup>	PACKING GLAND KIT <sup>(2)</sup>	CONE KIT <sup>(3)</sup>	HW/SC KIT <sup>(4)</sup>	CAP & BONNET KIT <sup>(5)</sup>
950A0240H09	BW - HW	4	950A0240H26	950A0240H34	950A0240H46	950A0240H55	N/A
950A0240H10	BW - HW	5	950A0240H27	950A0240H35	950A0240H47	950A0240H56	N/A
950A0240H11	BW - HW	6	950A0240H28	950A0240H35	950A0240H48	950A0240H56	N/A
950A0241H09	BW - SC	4	950A0240H26	950A0240H34	950A0240H46	950A0241H63	950A0241H56
950A0241H10	BW - SC	5	950A0240H27	950A0240H35	950A0240H47	950A0241H64	950A0241H57
950A0241H11	BW - SC	6	950A0240H28	950A0240H35	950A0240H48	950A0241H64	950A0241H58

1. Consists of Cone & Seal, Setscrew, Steel Balls, O-ring, Cap Gasket, Soft Backseat.
2. Consists of Packing Gland and Washer, O-rings, Wear Ring, U-sleeves (where applicable).
3. Consists of Cone & Seal, Setscrew, Steel Balls, O-ring.
4. Consists of Handwheel, Washer, Screw/Nut or Seal Cap and Gasket.
5. Consists of O-ring, Cap Gasket, Soft Backseat.

CHECK VALVE ONLY (See Index next page)						
VALVE	APPLICATION	SIZE	BONNET GASKET	SEAL KIT	14.5 PSI SPRING KIT	29 PSI SPRING KIT
956A0045H01	HIGH STAGE	4	956A0045H11	956A0045H12	956A0045H13	956A0045H14
956A0045H02	BOOSTER	4	956A0045H11	956A0045H12	956A0045H13	956A0045H14
956A0046H01	HIGH STAGE	5	956A0046H11	956A0046H12	956A0046H13	956A0046H14
956A0046H02	BOOSTER	5	956A0046H11	956A0046H12	956A0046H13	956A0046H14
956A0047H01	HIGH STAGE	6	956A0047H11	956A0047H12	956A0047H13	956A0047H14
956A0047H02	BOOSTER	6	956A0047H11	956A0047H12	956A0047H13	956A0047H14

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
9—	—	<b>Discharge Stop Check Valve Assembly (See Chart below)</b>	Ref.		
	—	<b>Stop Valve (See Chart previous page and below)</b>	Ref.		
	—	<b>Check Valve (See Chart previous page and below)</b>	Ref.		
—1	—	Housing	1		
—2	—	Bonnet	1		
—3	—	Piston Cylinder	1		
—4	—	Piston Rod	1		
—5	—	Piston	1		
—6	—	Cone	1		
—7	—	Spring Screw	1		
—8	—	Spring Bushing	1		
—9	—	Cone Plate	1		
—10	—	Cone Rod	1		
—11	—	Rear Bushing	1		
—12	—	Front Bushing	1		
—13	—	Spring	1		
—14	Spring Kit*	Spring	1		
—15	—	Plug (not shown)	1		
—16	Seal Kit*	Teflon Ring	1		
—17	Seal Kit*	Bonnet Gasket	1		
—18	Seal Kit*	Nylon Washer	1		
—19	Seal Kit*	Glyde Ring	1		
—20	Seal Kit*	O-Ring	1		
—21	Seal Kit*	O-Ring	1		
—22	Seal Kit*	O-Ring	1		
—23	—	Spring Ring	1		
—24	—	Spring Ring	1		
—25	—	Spring Ring	1		
—26	—	Nut	1		
—27	—	Set Screw	A/R		
—28	Spring Kit*	Marking Plate	1		
—29	Spring Kit*	Rivet	1		
—30	—	Washer	1		
—31	—	Nut	1		
—32	—	Screw	1		
—33	957A0003H01	Valve, Angle, SC, 1/4" MPT x 1/4" FPT	1		

\* See Check Valve Chart, previous page.

<b>DISCHARGE STOP-CHECK VALVE ASSEMBLY and VALVES</b>				
ASSEMBLY	APPLICATION	SIZE	STOP VALVE	CHECK VALVE
582C0030G01	HIGH STAGE HW	4	950A0240H09	956A0045H01
582C0030G02	HIGH STAGE SC	4	950A0241H09	956A0045H01
582C0030G03	BOOSTER HW	4	950A0240H09	956A0045H02
582C0030G04	BOOSTER SC	4	950A0241H09	956A0045H02
582C0031G01	HIGH STAGE HW	5	950A0240H10	956A0046H01
582C0031G02	HIGH STAGE SC	5	950A0241H10	956A0046H01
582C0031G03	BOOSTER HW	5	950A0240H10	956A0046H02
582C0031G04	BOOSTER SC	5	950A0241H10	956A0046H02
582C0032G01	HIGH STAGE HW	6	950A0240H11	956A0047H01
582C0032G02	HIGH STAGE SC	6	950A0241H11	956A0047H01
582C0032G03	BOOSTER HW	6	950A0240H11	956A0047H02
582C0032G04	BOOSTER SC	6	950A0241H11	956A0047H02

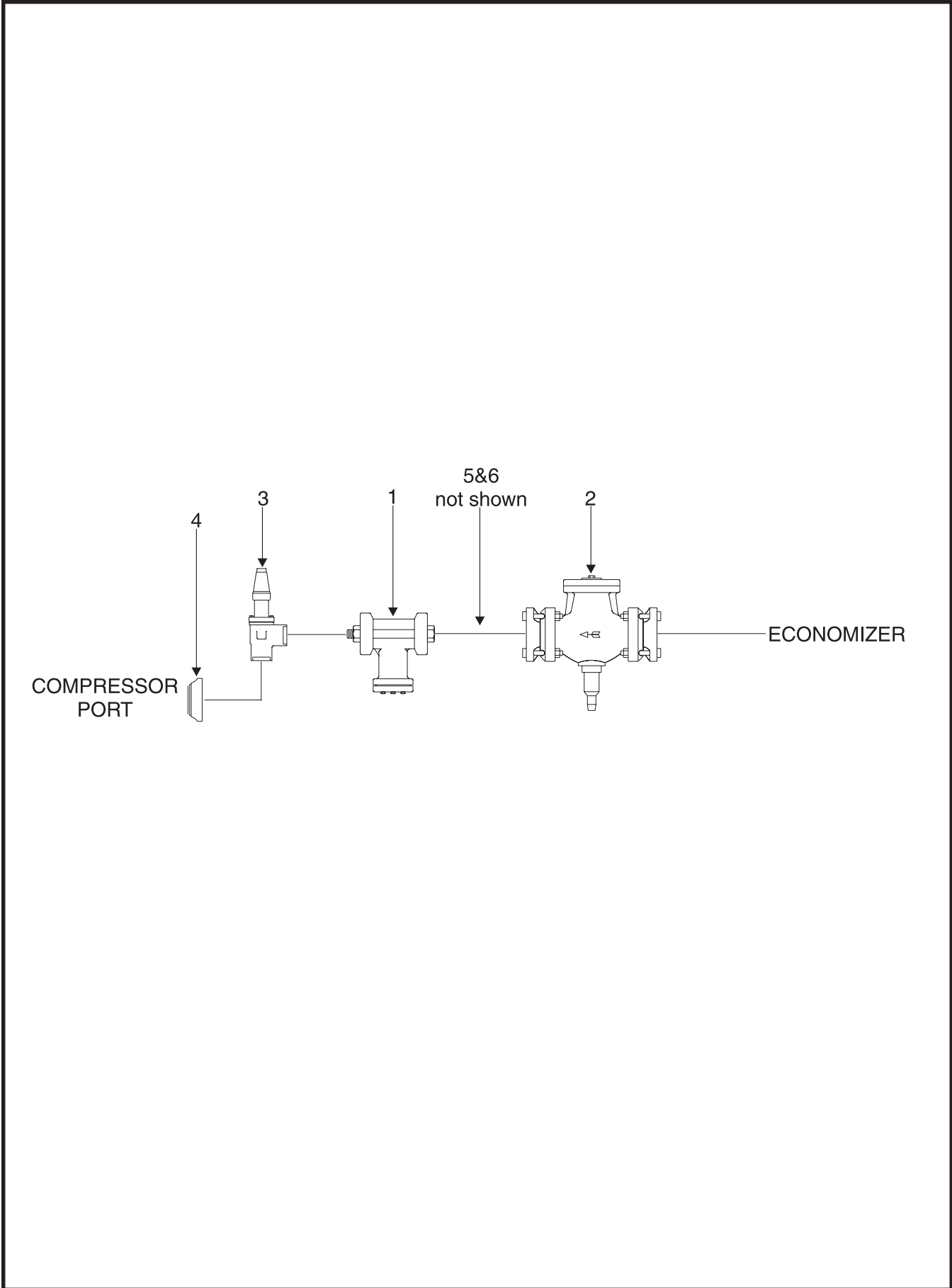


Figure 10. Economizer.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
10—	535M0001G03	Kit, Economizer, R-717, 100 — 222	Ref.		
	535M0001G04	Kit, Economizer, R-717, 316 — 399	Ref.		
	535M0001G05	Kit, Economizer, R-717, 480	Ref.		
—1	950A0001H06	Strainer, 2", 100 — 399	1		
	950A0001H25	Kit, Repair (includes screen, spring & gasket)	1		
	950A0001H09	Strainer, 3", 480	1		
	950A0001H28	Kit, Repair (includes screen, spring & gasket)	1		
—2	956A0025H23	Valve, Check, Modified, 1-1/2", 100 — 222	1		
	956A0025H24	Valve, Check, Modified, 2", 316 — 399	1		
	956A0025H25	Valve, Check, Modified, 3", 480	1		
—3	950A0125H02	Valve, Angle, Herl, SC, 1-1/2" SW, 100 — 222	1		
	950A0127H02	Valve, Angle, Herl, SC, 2" SW, 316 — 399	1		
	82406549809	Valve, Angle, Gram, SC, 1-1/2" SW, 100 — 222	1		
	82407549909	Valve, Angle, Gram, SC, 2" SW, 316 — 399	1		
	82409536309	Valve, Angle, Gram, SC, 3" BW, 480	1		
	950A0233H05	Valve, Angle, Danfoss, SC, 1-1/2" SW, 100 — 222	1		
	950A0233H06	Valve, Angle, Danfoss, SC, 2" SW, 316 — 399	1		
	950A0241H08	Valve, Angle, Danfoss, SC, 3" BW, 480	1		
—4	959A0057H05	Gasket, 2-3/4" Bolt Flange, Compressor, 100 — 222	1		
	959A0057H07	Gasket, 3-1/4" Bolt Flange, Compressor, 316 — 399	1		
	959A0057H18	Gasket, 4-3/8" Bolt Flange, Compressor, 480	1		
	944A0358H02	Flange, SW, Square, 1-1/2", 100 — 222	1		
	944A0358H03	Flange, SW, Square, 2", 316 — 399	1		
	944A0358H05	Flange, SW, Square, 3", 480	1		
—5	959A0057H07	Gasket, 3-1/4" Bolt Flange, Adapter (betw. valve & strainer)	2		
—6	944A0360G25	Kit, Flange, Threaded, 1-1/2", 100 — 222	Ref.		
	901A0046D10	Capscrew, Hex Head, 5/8 x 3-1/4"	8		
	902A0021H03	Nut, 5/8"	8		
	944A0356H02	Flange, Square, Threaded, Male, 1-1/2" (check valve)	1		
	944A0357H02	Flange, Square, Threaded, Female, 1-1/2" (strainer)	1		
	959A0057H05	Gasket, 2-3/4" O.D. Bolt Flange	2		
	944A0360G26	Kit, Flange, Threaded, 2", 316 — 399	Ref.		
	901A0046D11	Capscrew, Hex Head, 5/8 x 3-1/2"	8		
	902A0021H03	Nut, 5/8"	8		
	944A0356H03	Flange, Square, Threaded, Male, 2" (check valve)	1		
	944A0357H03	Flange, Square, Threaded, Female, 2" (strainer)	1		
	959A0057H07	Gasket, 3-1/4" O.D. Bolt Flange	2		

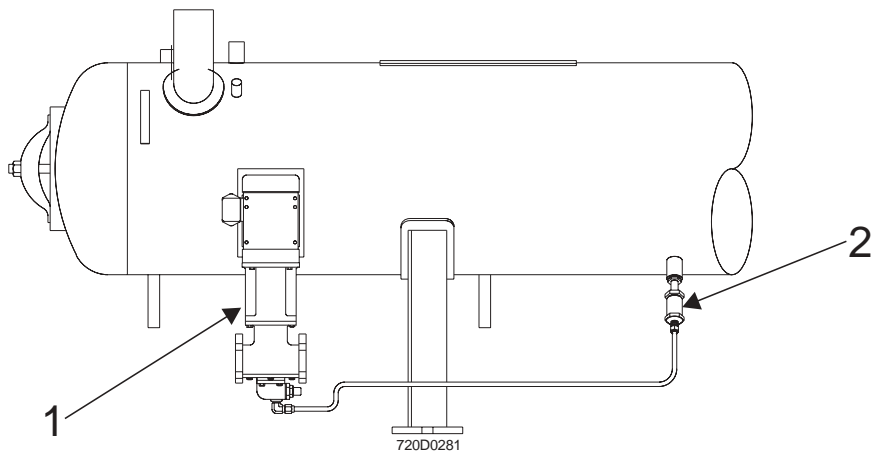


Figure 11. Oil Pump.



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
11—	720D0281	Oil Pump Mounting and Tubing Assembly, 100 & 134	Ref.	F	
	720D0292	Oil Pump Mounting and Tubing Assembly, 177 & 222	Ref.	F	
	750D0307	Oil Pump Mounting and Tubing Assembly, 270	Ref.	D	
	720D0319	Oil Pump Mounting and Tubing Assembly, 316 & 399	Ref.	D	
	720D0329	Oil Pump Mounting and Tubing Assembly, 480	Ref.	C	
—1	960A0082G01	Assembly, Pump, 1 HP, 208/230/460-3-60, 190/380-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G02	Assembly, Pump, 1 HP, 575-3-60	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G03	Assembly, Pump, 1 HP, 415-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G07	Assembly, Pump, 1-1/2 HP, 208/230/460-3-60	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G08	Assembly, Pump, 1-1/2 HP, 190/380-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G09	Assembly, Pump, 1-1/2 HP, 575-3-60	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G10	Assembly, Pump, 1-1/2 HP, 415-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H02	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G11	Assembly, Pump, 2 HP, 208/230/460-3-60	1		
	960A0082H01	Pump only*	1		
	914A0015H13	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G12	Assembly, Pump, 2 HP, 190/380-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H14	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G13	Assembly, Pump, 2 HP, 575-3-60	1		
	960A0082H01	Pump only*	1		
	914A0015H15	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G14	Assembly, Pump, 2 HP, 415-3-50	1		
	960A0082H01	Pump only*	1		
	914A0015H16	Motor only	1		
	960A0066H11	Coupling only	1		
	960A0082G04	Assembly, Pump, 3 HP, 208/230/460-3-60, 190/380-3-50	1		
	960A0082H02	Pump only*	1		
	914A0015H03	Motor only	1		
	960A0066H12	Coupling only	1		

\* 960A0076H41 Shaft Seal Kit, 1-3 HP ; 960A0077H41 Shaft Seal Kit, 5 HP. Kit consists of Shaft Seal, O-ring, Bearings and Locknut.

RWF ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
11—1	—	Oil Pump Piping, Continued	Ref.		
	960A0082G05	Assembly, Pump, 3 HP, 575-3-60	1		
	960A0082H02	Pump only*	1		
	914A0015H03	Motor only	1		
	960A0066H12	Coupling only	1		
	960A0082G06	Assembly, Pump, 3 HP, 415-3-50	1		
	960A0082H02	Pump only*	1		
	914A0015H03	Motor only	1		
	960A0066H12	Coupling only	1		
	960A0083G01	Assembly, Pump, 5 HP, 190/380-3-50	1		
	960A0083H01	Pump only*	1		
	914A0016H02	Motor only	1		
	960A0073H13	Coupling only	1		
	960A0083G02	Assembly, Pump, 5 HP, 230/460-3-60	1		
	960A0083H01	Pump only*	1		
	914A0016H02	Motor only	1		
	960A0073H13	Coupling only	1		
	960A0083G03	Assembly, Pump, 5 HP, 415-3-50	1		
	960A0083H01	Pump only*	1		
	914A0016H20	Motor only	1		
	960A0073H13	Coupling only	1		
	960A0083G04	Assembly, Pump, 5 HP, 575-3-60	1		
	960A0083H01	Pump only*	1		
	914A0016H23	Motor only	1		
	960A0073H13	Coupling only	1		
—2	956A0014H01	Valve, Check, In-line, 3/4" FPT (100—222)	1		
	956A0014H02	Valve, Check, In-line, 1" FPT (270—480)	1		

\* 960A0076H41 Shaft Seal Kit, 1-3 HP ; 960A0077H41 Shaft Seal Kit, 5 HP. Kit consists of Shaft Seal, O-ring, Bearings and Locknut.

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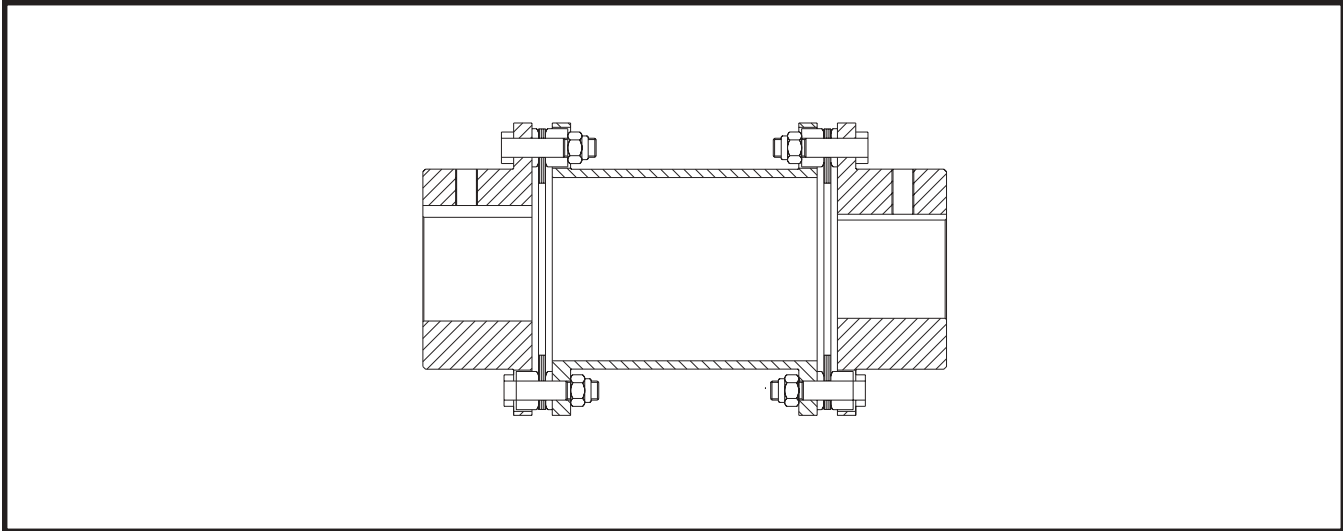


Figure 12. Coupling Assembly.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
12—	720C0044	Coupling, Motor to Compressor, 100, 134, 316 & 399	Ref.	A	
	720C0045	Coupling, Motor to Compressor, 177, 222, 270, 316 & 399	Ref.	—	
	720C0058	Coupling, Motor to Compressor, 316 & 399	Ref.	—	
	720C0078	Coupling, Motor to Compressor, 100, 134, 177, 222, 270	Ref.	—	
	720C0079	Coupling, Motor to Compressor, 222, 270, 316, 399, 480	Ref.	A	
—1	720C0044H01	Assbly, Coupling, 2.375" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0044H02	Assbly, Coupling, 2.125" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0044H03	Assbly, Coupling, 1.875" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0045H01	Assbly, Coupling, 2.375" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0045H02	Assbly, Coupling, 2.125" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0045H03	Assbly, Coupling, 2.875" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0058H02	Assbly, Coupling, 2.375" Motor Bore/3.250" Compr. Bore <sup>(1)</sup>	1		
	720C0058H03	Assbly, Coupling, 2.875" Motor Bore/3.250" Compr. Bore <sup>(1)</sup>	1		
	720C0058H04	Assbly, Coupling, 2.375" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0058H05	Assbly, Coupling, 2.875" Motor Bore/2.500" Compr. Bore <sup>(1)</sup>	1		
	720C0078H01	Assbly, Coupling, 2.376" Motor Bore/2.251" Compr. Bore <sup>(2)</sup>	1		
	720C0078H02	Assbly, Coupling, 2.126" Motor Bore/2.251" Compr. Bore <sup>(2)</sup>	1		
	720C0078H04	Assbly, Coupling, 2.126" Motor Bore/2.501" Compr. Bore <sup>(2)</sup>	1		
	720C0078H06	Assbly, Coupling, 2.376" Motor Bore/2.501" Compr. Bore <sup>(2)</sup>	1		
	720C0079H01	Assbly, Coupling, 2.376" Motor Bore/2.501" Compr. Bore <sup>(3)</sup>	1		

(1) No service parts available. Replaced by 720C0078 and 720C0079.  
 (2) For 50-450 HP. Service parts in chart below.  
 (3) For 450-850 HP. Service parts in chart below.

COUPLING SERVICE KITS*					
Coupling Part Number	T. B. Woods BPU-41 Disc Pack	Kop-Flex KD21-153X Disc Pack	Kop-Flex KD21-204 Disc Pack	Rexnord 52-225 Disc Pack	Rexnord 52-262 Disc Pack
720C0078H01	720C0078H11	720C0078H12	—	720C0078H13	—
720C0078H02	720C0078H12	720C0078H13	—	720C0078H14	—
720C0078H04	720C0078H13	720C0078H14	—	720C0078H15	—
720C0078H06	720C0078H14	720C0078H15	—	720C0078H16	—
720C0079H01	720C0079H11	720C0079H12	720C0079H13	720C0079H13	720C0079H14

\* To service 720C0078 and 720C0079 Couplings, determine the manufacturer and model, then select correct service kit listed above. Kit includes fasteners.

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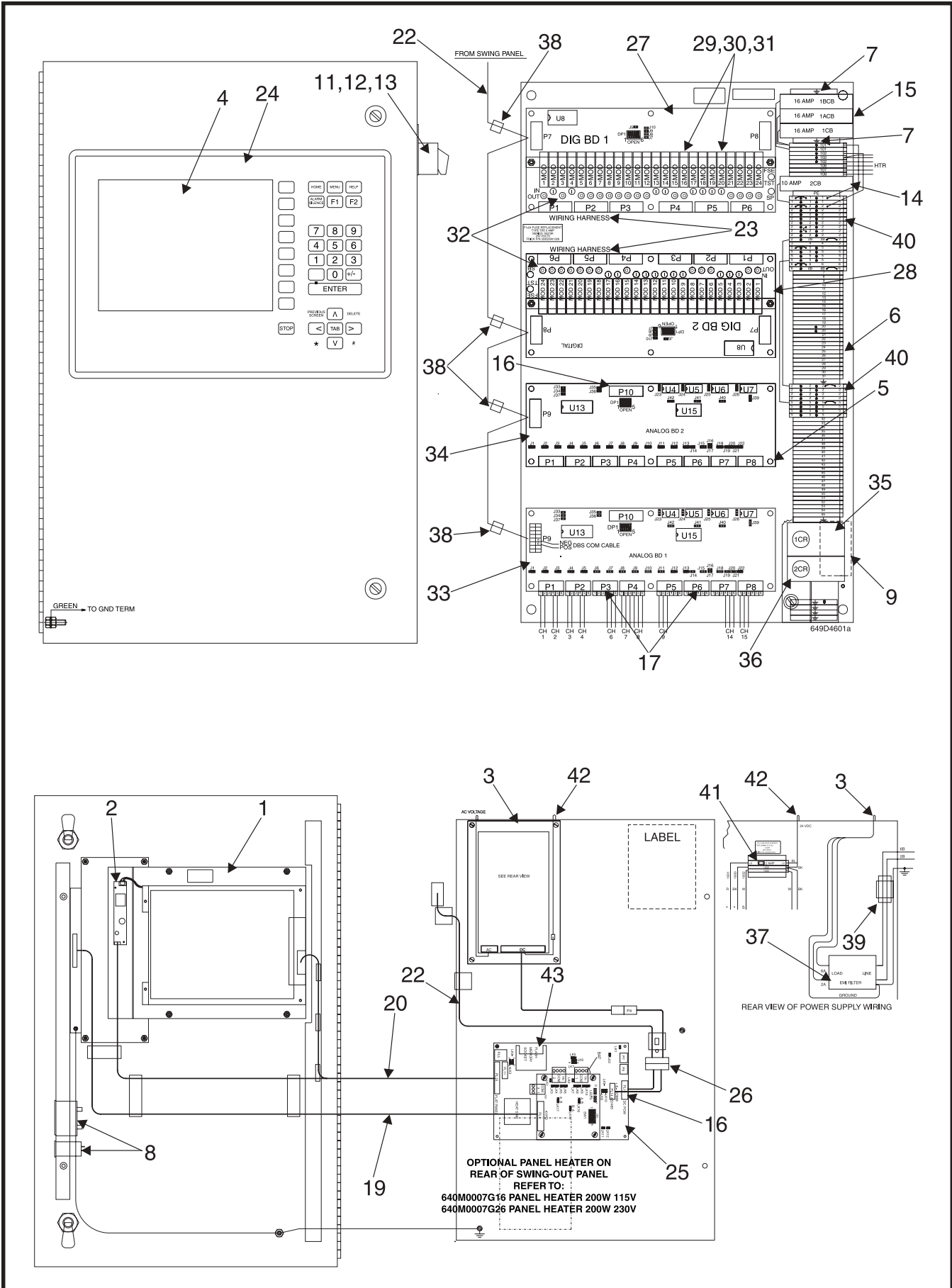


Figure 13. Quantum™ Control Panel.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
13—	640D0133	Quantum™ Control Panel Assembly	Ref.	B	
—1	640C0052G01	Assembly, VGA Display, Phillips (See Chart Page 32)	1		
—2	333Q0001582	Inverter	1		
—3	640C0022G01	Kit, Power Supply	1		
	640B0048H01	AC Wiring Harness, Power Supply	1		
—4	640A0032H01	Plexiglas, Display	1		
—5	333Q0001199	Stand-off, Circuit Board	20		
—6	333Q0001183	Block, Terminal	34		
—7	333Q0001185	Block, Terminal, Ground	8		
—8	333Q0000261	Meter, Elapsed Time (ETM), Round, 115V	1		
	333Q0000899	Meter, Elapsed Time (ETM), Round, 230V	1		
	333Q0001191	Meter, Elapsed Time (ETM), Digital, 115/230V	1		
—9	333Q0001192	Transformer, 2.5V	1		
—10	—	Not used			
—11	333Q0001194	Switch, Power	1		
—12	333Q0001195	Block, Contact, Power Switch	1		
—13	333Q0001196	Plate, ON-OFF	1		
—14	649A0883H10	Circuit Breaker, 10 Amp	1		
—15	649A0883H16	Circuit Breaker, 16 Amp	1—3		
—16	333Q0001234	Connector, 8 Pole	2		
—17	333Q0001258	Connector, 6 Pole	8		
—18	—	Not used			
—19	640B0031H01	Cable, Key Pad	1		
—20	640B4824H01	Cable, Harness Q-4 CPU to Display/Inverter	1		
—21	—	Not used			
—22	640B0038H01	Cable Harness, Power	1		
—23	640B0041H01	Cable Harness, Board 1	1		
	640B0042H01	Cable Harness, Board 2	1		
—24	640D0060H01	Cover and Keypad	1		
—25	649C1091G01	Circuit Board, Main, Quantum IV	1		
	649C1083G01	Circuit Board, Main, Quantum I, II and III	1		
—26	649A0862H01	Adapter, Wire Harness, Quantum to DC	1		
—27	640C0024G01	Circuit Board (Digital Board 1) (a)	1		
	649D4691H01	Harness Wiring, AC	1		
—28	640C0024G02	Assembly, Circuit Board (Digital Board 2) (a)	1		
—29	111Q0281061	Module, Output, 280V (For 115/230V)	11		
—30	333Q0000116	Module, Input, 90-140V (For 115V)	6		
—31	333Q0000789	Module, Input, 230V	3		
—32	333Q0001326	Fuse, 5 Amp, 250V	24		F1-24
—33	640C0026G01	Circuit Board (Analog Board 1) (b)	1		
	649D4690H01	Harness, Wiring, Analog	1		
—34	640C0026G02	Assembly, Circuit Board (Analog Board 2) (b)	1		
—35	333Q0000206	Relay, 3PDT, 115V (Base 333Q0000207)	1		1CR
	333Q0000897	Relay, 3PDT, 230V (Base 333Q0000207)	1		1CR
	111Q0280958	Suppressor, Surge, 600 VDC, .1 MFD	1		
	333Q0000196	Spring, Hold Down	2		
—36	333Q0001095	Relay, 2PDT, 24VDC (Base 333Q0000195)	1		2CR
	111Q0831800	Rectifier-Diode	1		
—37	333Q0001418	Filter, Line, EMI/RFI	1		
—38	333Q0001425	Clamp, Ferrite	4		
—39	333Q0001404	Tube, Ferrite	1		
—40	333Q0001423	Block, Terminal	26		
—41	333Q0001672	Fuse, 2 Amp	1		
—42	640A0058H01	Assembly, Cable, 24VDC	1		
—43	—	Flash Card (c)	1		

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

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

(c) To order Flash Card contact Frick Controls.

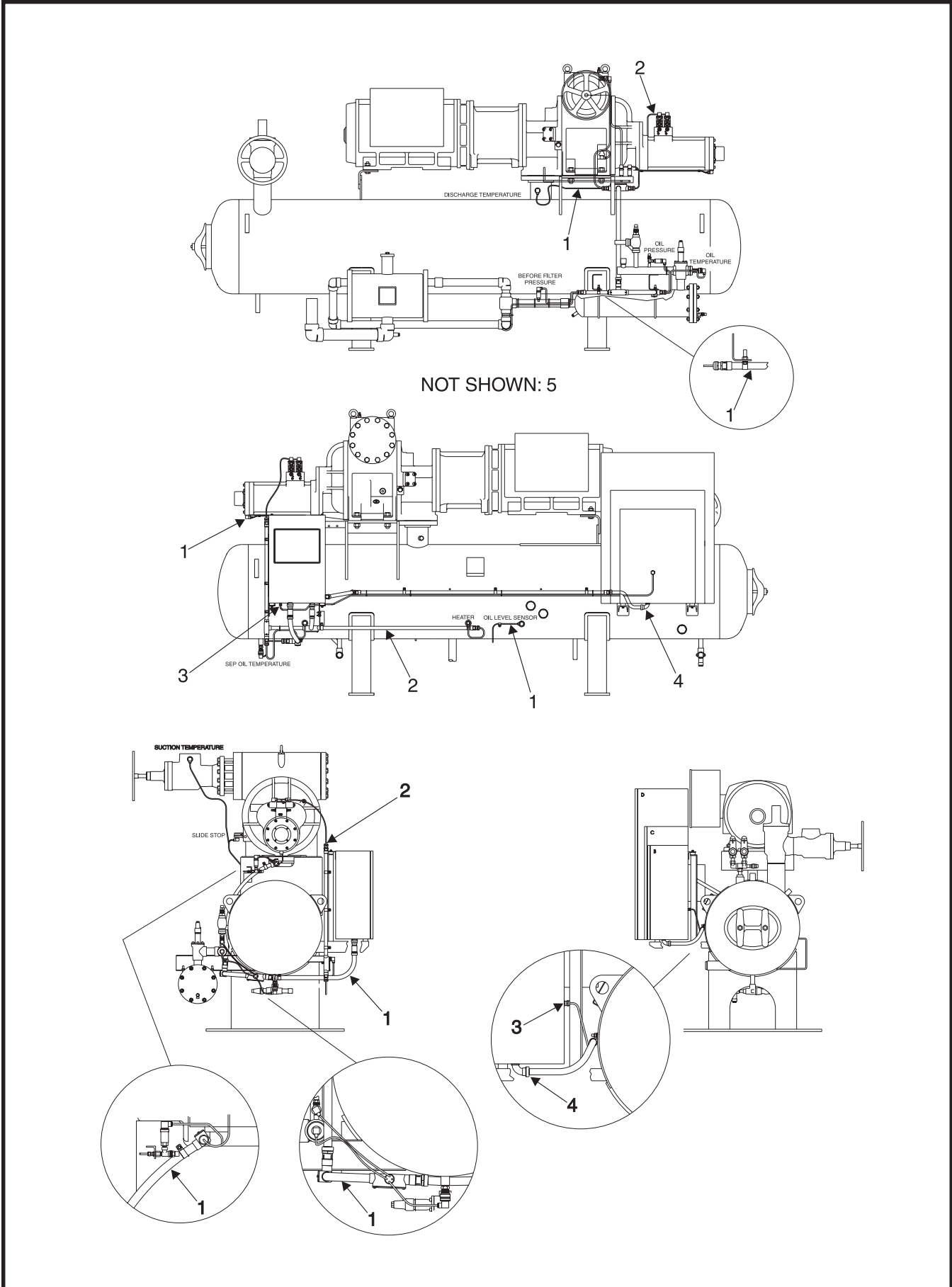


Figure 14. Wiring Harness, Typical (177/222 shown).



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
14—	640D0129	Package Layout, Harness 100-134	Ref.		
	640D0130	Package Layout, Harness 177-222	Ref.		
	640D0131	Package Layout, Harness 270-316	Ref.		
	640D0135	Package Layout, Harness 316-399	Ref.		
	640D0136	Package Layout, Harness 480	Ref.		
1—	649D4678H01	Harness, Wiring, Analog Devices, External 100-134	1		
	649D4688H01	Harness, Wiring, Analog Devices, External 177-222	1		
	649D4699H01	Harness, Wiring, Analog Devices, External 270-399	1		
	649D4746H01	Harness, Wiring, Analog Devices, External 480	1		
—2	649D4692H01	Harness, Wiring, AC External Heaters & Valves 100-134	1		
	649D4693H01	Harness, Wiring, AC External Heaters & Valves 177-222	1		
	649D4700H01	Harness, Wiring, AC External Heaters & Valves 270-399	1		
	649D4747H01	Harness, Wiring, AC to Heaters & Valves 480	1		
	649D4690H01	Harness, Wiring, Analog Internal, 100-480	1		
	649D4691H01	Harness, Wiring, AC Heaters & Valves Internal 100-480	1		
—3	649A0893H01	Assembly, Cable, DBS to Quantum™ Communications	1		
—4	649D4696H01	Harness, Wiring, AC, DBS to Quantum™, 100-134	1		
	649D4697H01	Harness, Wiring, AC, DBS to Quantum™, 177-222	1		
	649D4720H01	Harness, Wiring, AC, DBS to Quantum™, 270-399	1		
	649D4798H01	Harness, Wiring, AC, DBS to Quantum™, 480	1		
—5	640D0121H01	Cable Assembly, Liquid Injection (not shown)	1-2		

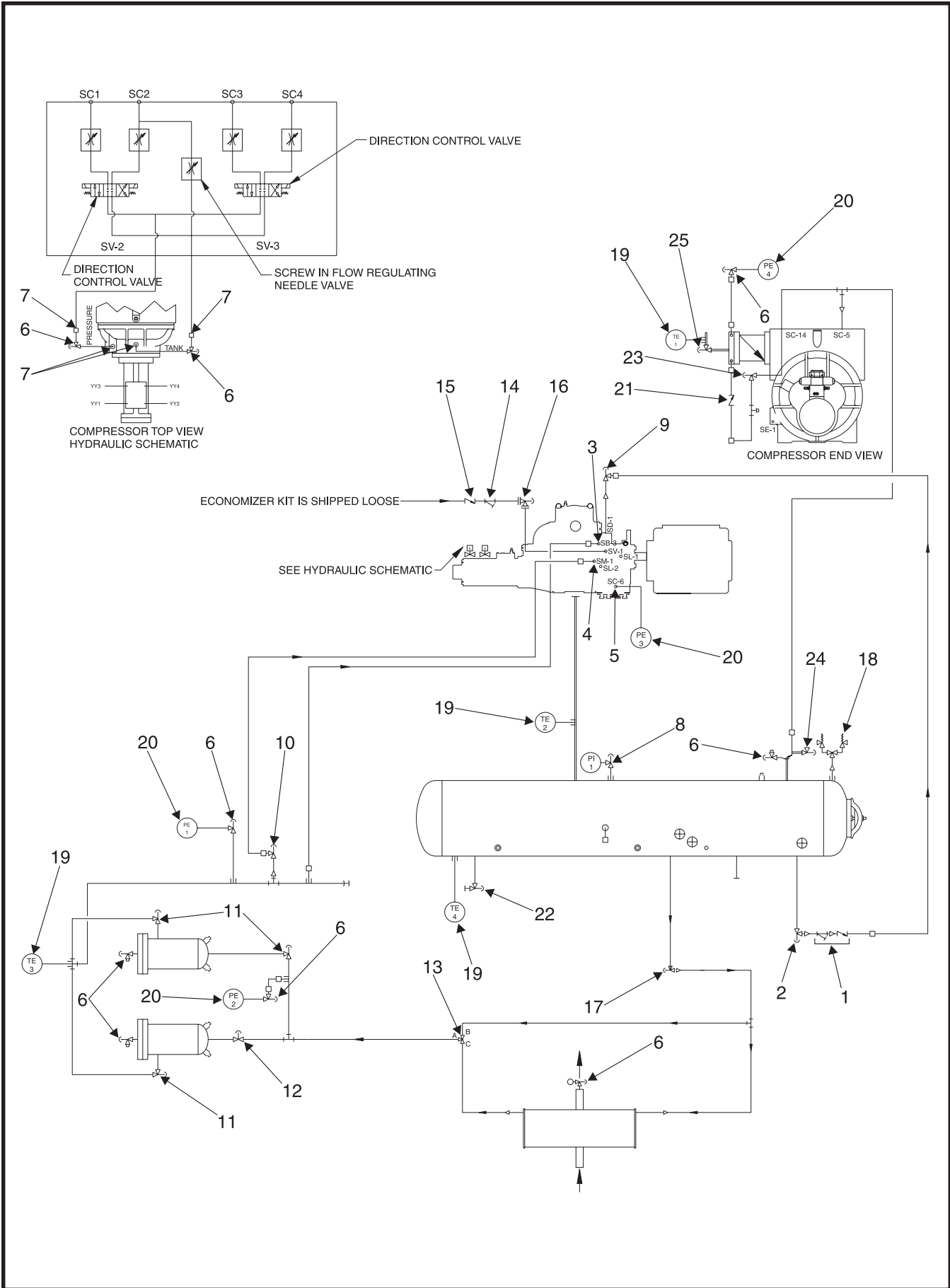


Figure 15. Piping and Instrumentation, Typical.

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
15—	720E0072G40	Piping Package Parts, 100 and 134	Ref.		
	720E0072G50	Package Parts Assembly, 100 and 134	Ref.		
	720E0073G40	Piping Package Parts, 177 and 222	Ref.		
	720E0073G50	Package Parts Assembly, 177 and 222	Ref.		
	720E0074G40	Piping Package Parts, 270	Ref.		
	720E0074G50	Package Parts Assembly, 270	Ref.		
	720E0075G40	Piping Package Parts, 316 and 399	Ref.		
	720E0075G50	Package Parts Assembly, 316 and 399	Ref.		
—1	720B0030G01	Assembly, Valve, Coalescer Bleed, <b>Current</b>	1		
	950A0281H01	Valve, Angle, SW/MPT 1"	1		
	720B0030H02	Nut	2		
	720B0030H03	Flange, 1/2" FPT (Stop Valve & Strainer)	1		
	720B0030H04	Bolt	2		
	720G0030H05	Strainer	1		
	720B0030H21	Kit, Strainer Service, Cover Gasket and Basket	1		
	720B0030H06	Valve, Check	1		
	720B0030H22	Kit, Check Valve (w/o flanges) Service	1		
	720B0030H07	Gaskets (Service Kit 720B0030H23 includes 2 gaskets)	3		
	720B0030H08	Flange, 3/8" FPT (Check Valve)	1		
	950A0019H01	Strainer, 1/2" FPT, <b>Early</b>	1		
	950A0019H02	Gasket, Flange	1		
	950A0019H03	Gasket, Screen	1		
	950A0019H04	Screen w/Gasket	1		
	956A0018H01	Valve, Check, Inline, 1/4 FPT, <b>Early</b>	1		
—2	950A0233H03	Valve, SW, Angle, SC, 1"	1		
—3	980A0014K64	O-ring, Port SB-3, Oil Supply	1		
—4	980A0012K66	O-ring, Port SM-1, Main Oil Injection	1		
—5	980A0014K58	O-ring, Port SC-6, Discharge Pressure	1		
—6	957A0003H01	Valve, Angle, SC, 1/4 MPT x 1/4 FPT	A/R		
—7	980A0014K58	O-ring, Adapter	4		
—8	950A0237H03	Valve, Angle, SC, 1 MPT	1		
—9	957A0030H01	Valve, Angle, SC, Coalescer Bleed, 1/4" (100 — 222)	1		
	957A0030H02	Valve, Angle, SC, Coalescer Bleed, 3/8" (270 — 480)	1		
	944A0246H09	Adapter, 1-1/16-12 UN x 1/2-14 NPTF (O-ring 980A0012K66)	1		
—10	954A0033H01	Valve, Hand Expansion, SC, 1" SW, 100—134	1		
	954A0033H02	Valve, Hand Expansion, SC, 1-1/4" SW, 177—222	1		
	954A0047H01	Valve, Hand Expansion, SC, 1-1/2" SW, 270—480	1		
—11	82406549809	Valve, Angle, Gram, SC, 1-1/2" SW, 100 & 134	3		
	82407549909	Valve, Angle, Gram, SC, 2" SW, 177 & 222	3		
	82408536209	Valve, Angle, Gram, SC, 2-1/2" BW, 270—399	3		
	950A0233H05	Valve, Angle, Danfoss, SC, 1-1/2" SW, 100 & 134	3		
	950A0233H06	Valve, Angle, Danfoss, SC, 2" SW, 177 & 222	3		
	950A0241H07	Valve, Angle, Danfoss, SC, 2-1/2" BW, 270—480	3		
—12	82406551209	Valve, Globe, Gram, SC, 1-1/2" SW, 100 & 134	1		
	82407551309	Valve, Globe, Gram, SC, 2" SW, 177 & 222	1		
	82408538209	Valve, Globe, Gram, SC, 2-1/2" BW, 270—399	1		
	950A0245H05	Valve, Globe, Danfoss, SC, 1-1/2" SW, 100 & 134	1		
	950A0245H06	Valve, Globe, Danfoss, SC, 2" SW, 177 & 222	1		
	950A0253H07	Valve, Globe, Danfoss, SC, 2-1/2" BW, 270—480	1		

RWF ROTARY SCREW COMPRESSOR UNIT  
SERVICE PARTS LIST



FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
15—	—	Piping Package Parts, continued	Ref		
—13	950A0195H01	Valve, Temperature Control, 1-1/2"	1		
	950A0195H11	Kit, Service, Temperature Control Valve, 1-1/2 & 2"*	1		
	950A0195H02	Valve, Temperature Control, 2"	1		
	950A0195H11	Kit, Service, Temperature Control Valve, 1-1/2 & 2"*	1		
	950A0222H01	Valve, Temperature Control, 2-1/2"	1		
	950A0222H11	Kit, Service, Temperature Control Valve, 2-1/2"*	1		
—14	950A0001H06	Strainer, 2", 100 — 399	1		
	950A0001H25	Kit, Repair (includes screen, spring & gasket)	1		
	950A0001H09	Strainer, 3", 480	1		
	950A0001H28	Kit, Repair (includes screen, spring & gasket)	1		
—15	956A0025H23	Valve, Check, Modified, 1-1/2", 100 — 222	1		
	956A0025H24	Valve, Check, Modified, 2", 316 — 399	1		
	956A0025H25	Valve, Check, Modified, 3", 480	1		
—16	950A0125H02	Valve, Angle, Herl, SC, 1-1/2" SW, 100 — 222	1		
	950A0127H02	Valve, Angle, Herl, SC, 2" SW, 316 — 399	1		
	82406549809	Valve, Angle, Gram, SC, 1-1/2" SW, 100 — 222	1		
	82407549909	Valve, Angle, Gram, SC, 2" SW, 316 — 399	1		
	82409536309	Valve, Angle, Gram, SC, 3" BW, 480	1		
	950A0233H05	Valve, Angle, Danfoss, SC, 1-1/2" SW, 100 — 222	1		
	950A0233H06	Valve, Angle, Danfoss, SC, 2" SW, 316 — 399	1		
	950A0241H08	Valve, Angle, Danfoss, SC, 3" BW, 480	1		
—17	82407549909	Valve, Angle, Gram, Shutoff, 2" SW, SC	1		
	82408536209	Valve, Angle, Gram, Shutoff, 2-1/2" BW, SC	1		
	950A0233H06	Valve, Angle, Danfoss, Shutoff, 2" SW, SC	1		
	950A0241H07	Valve, Angle, Danfoss, Shutoff, 2-1/2" BW, SC	1		
—18	720M0034G04	Dual Safety Valve 1/2", 100—399	Ref.		
	580C0358G09	Assembly, Dual Safety Valve	1		PSV-1
	955A0012H01	Manifold, 1/2"	1		
	952A0019H10	Valve, Safety, 1/2", 300 PSIG	2		
	720M0034G05	Dual Safety Valve, 3/4", 177—399	Ref.		
	580C0357G09	Assembly, Dual Safety Valve	1		PSV-1
	955A0012H02	Manifold, 3/4"	1		
	952A0020H10	Valve, Safety, 3/4", 300 PSIG	2		
	720M0034G06	Dual Safety Valve, R.S., 270—399	Ref.		
	580C0361G09	Assembly, Dual Safety Valve	1		PSV-1
	955A0023H01	Manifold, R.S. M3	1		
	952A0021H09	Valve, Safety, R.S. H3, 300 PSIG	2		
	720M0034G07	Dual Safety Valve R.S., 480	Ref.		
	580C0362G09	Assembly, Dual Safety Valve	1		
	955A0024H01	Manifold, R.S. H4	1		
	952A0022H09	Valve, Safety, R.S. H5	2		
—19	913A0097G01	Assembly, Temperature Probe	4		
	913A0094H01	Temperature Probe Element, Less Well	4		

FIG. & INDEX	ITEM NUMBER	DESCRIPTION	QTY.	REV.	P & I REF.
—20	913A0110H01	Transducer, Pressure, 0-200	4		
	913A0110H02	Transducer, Pressure, 0-500	4		
—21	956A0031H11	Valve, Check, 40 PSIG, 3/8", Swing	1		
	956A0031H13	Valve, Check, 25 PSIG, 3/8", Booster or Swing	1		
—22	950A0233H03	Valve, Angle, Danfoss, SC, 1" SW	1		
—23	957A0003H02	Valve, Angle, SC, 3/8 MPT x 3/8 FPT	1		
—24	582C0030G01	Valve, Discharge Stop/Check, 4" (High Stage)	1		
	582C0030G03	Valve, Discharge Stop/Check, 4" (Booster or Swing)	1		
	582C0031G01	Valve, Discharge Stop/Check, 5" (High Stage)	1		
	582C0031G03	Valve, Discharge Stop/Check, 5" (Booster or Swing)	1		
	582C0032G01	Valve, Discharge Stop/Check, 6" (High Stage)	1		
	582C0032G03	Valve, Discharge Stop/Check, 6" (Booster or Swing)	1		
—25	720M0166G01	Kit, Suction/Stop Check Valve, 5"	Ref.		
	901A0206H18	Capscrew, Hex Head, M20 x 2.5 x 130	8		
	950A0260G01	Valve Assembly, HW, 5"	1		
	956A0033H01	Valve, Swing, Check, 5"	1		
	959A0054H31	Gasket, 8-1/2" OD	2		
	720M0167G01	Kit, Suction/Stop Check Valve, 6"	Ref.		
	901A0206H19	Capscrew, Hex Head, M20 x 2.5 x 140	12		
	950A0261G01	Valve Assembly, HW, 6"	1		
	956A0033H02	Valve, Swing, Check, 6"	1		
	959A0054H32	Gasket, 9-7/8" OD	2		
	720M0187G01	Kit, Suction/Stop Check Valve, 6"	Ref.		
	720C0063H01	Plate, Adapter, 8-6"	1		
	901A0201H06	Capscrew, Hex Head, M22 x 2.5 x 80	12		
	901A0206H19	Capscrew, Hex Head, M20 x 2.5 x 140	12		
	950A0261G03	Valve Assembly, HW, 6"	1		
	956A0033H02	Valve, Swing, Check, 6"	1		
	959A0054H32	Gasket, 9-7/8" OD	2		
	959A0054H33	Gasket, 12-1/8" OD	1		
	720M0182G01	Kit, Suction/Stop Check Valve, 8"	Ref.		
	901A0192H13	Capscrew, Hex Head, M22 x 140	12		
	950A0262G01	Valve Assembly, HW, 8"	1		
	956A0033H03	Valve, Swing, Check, 8"	1		
	959A0054H33	Gasket, 12-1/8" OD	2		
	720M0182G02	Kit, Suction/Stop Check Valve, 10"	Ref.		
	582C0034G01	Valve Assembly, HW, 10 x 8"	1		
	901A0207H17	Capscrew, Hex Head, M24 x 160	16		
	956A0033H04	Valve, Swing, Check, 10"	1		
	959A0054H34	Gasket, 14-1/4" OD	1		
	959A0098H01	Gasket, 13-1/2" OD	1		

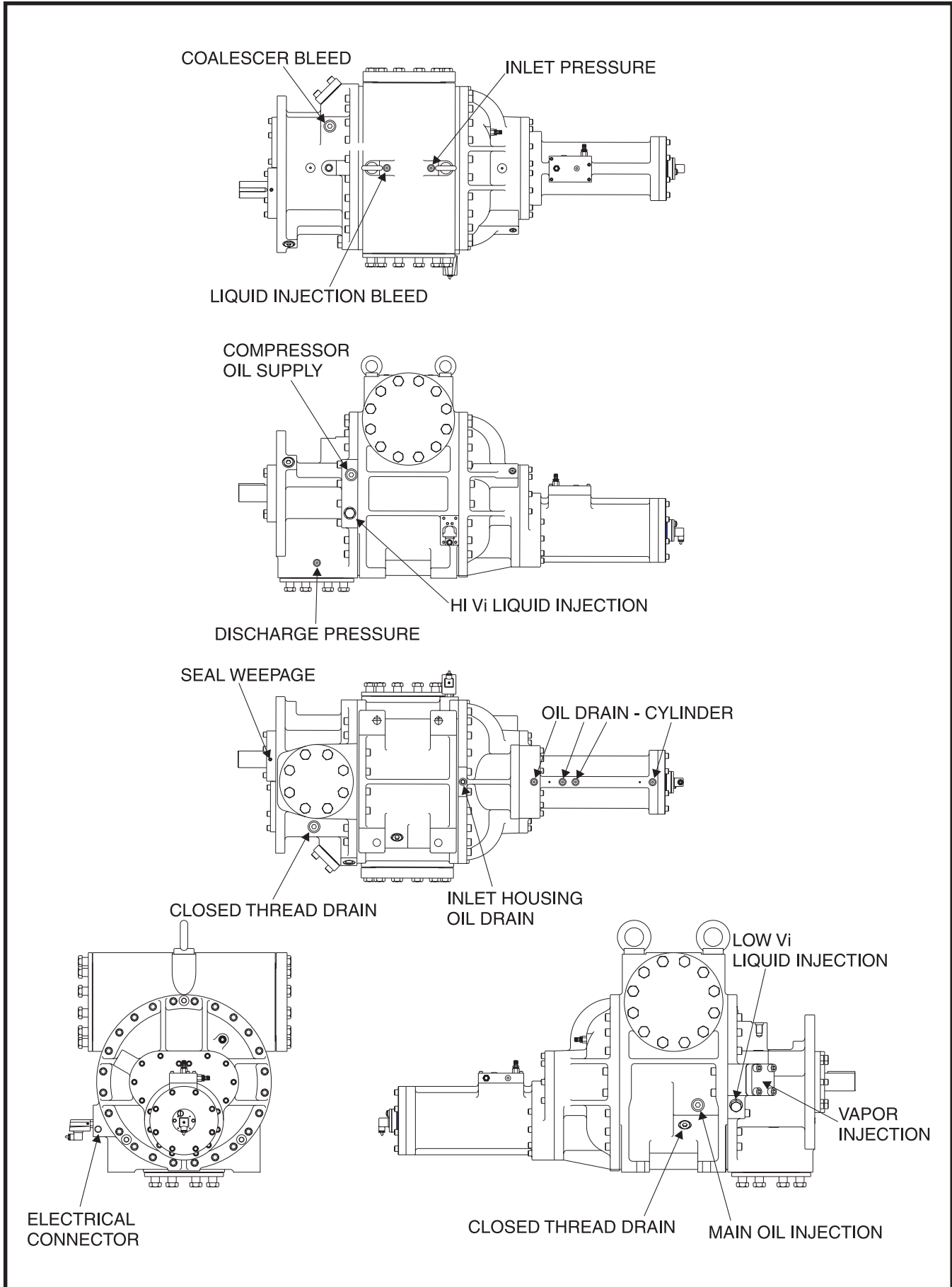
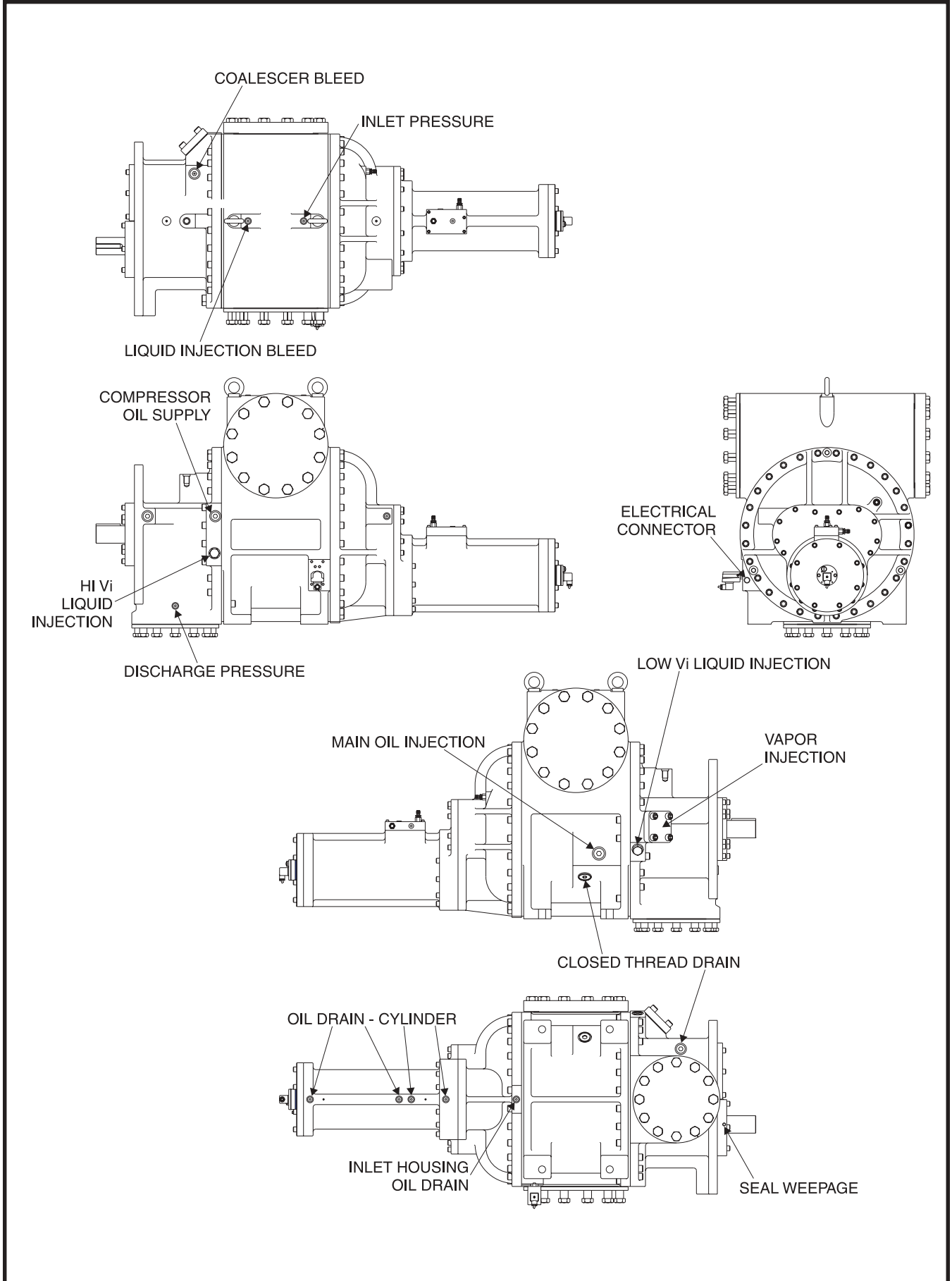


Figure 16. 1913/1918 Compressor Ports Locations.



**Figure 17. 2313/2317 Compressor Ports Locations.**

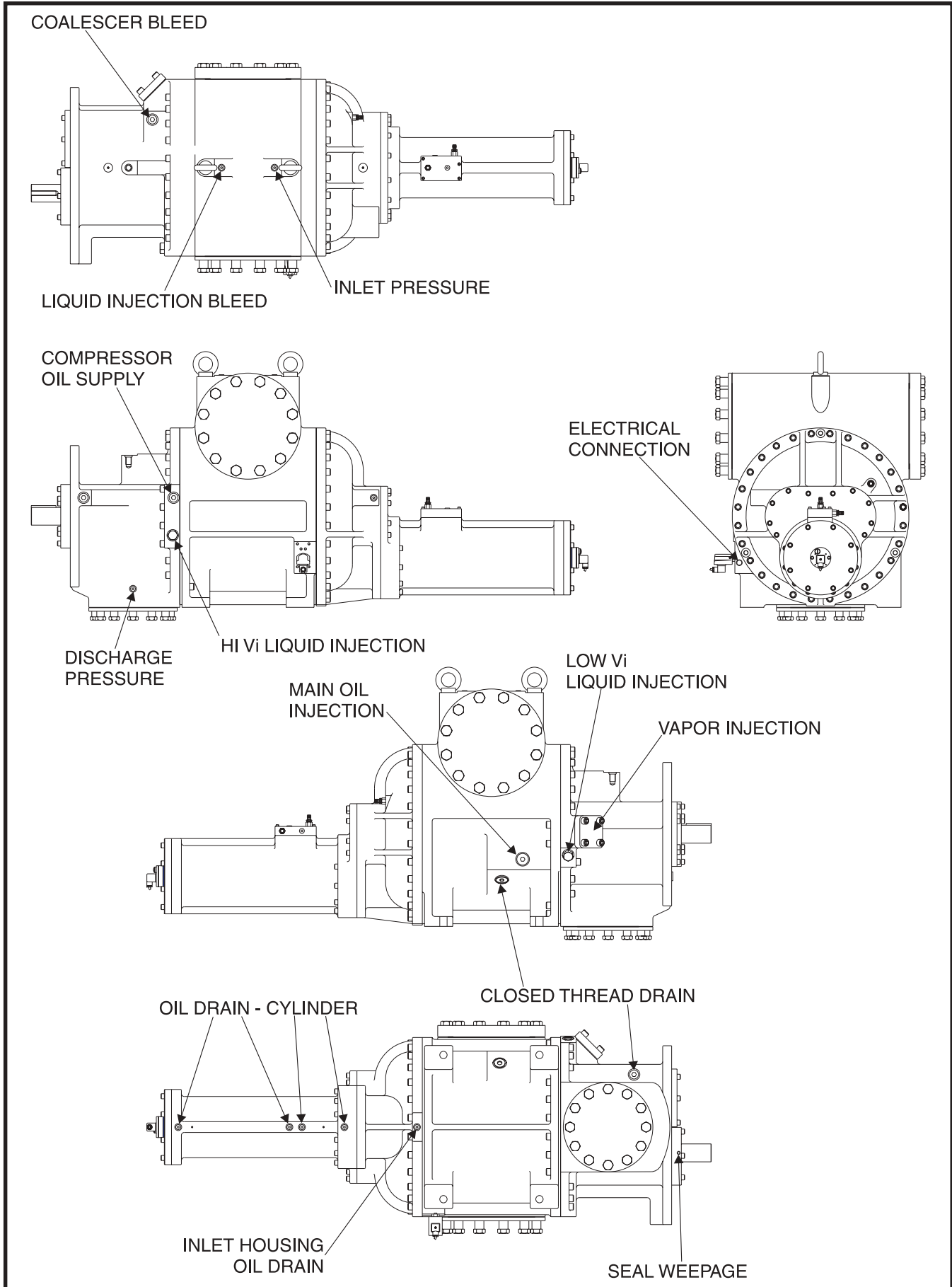
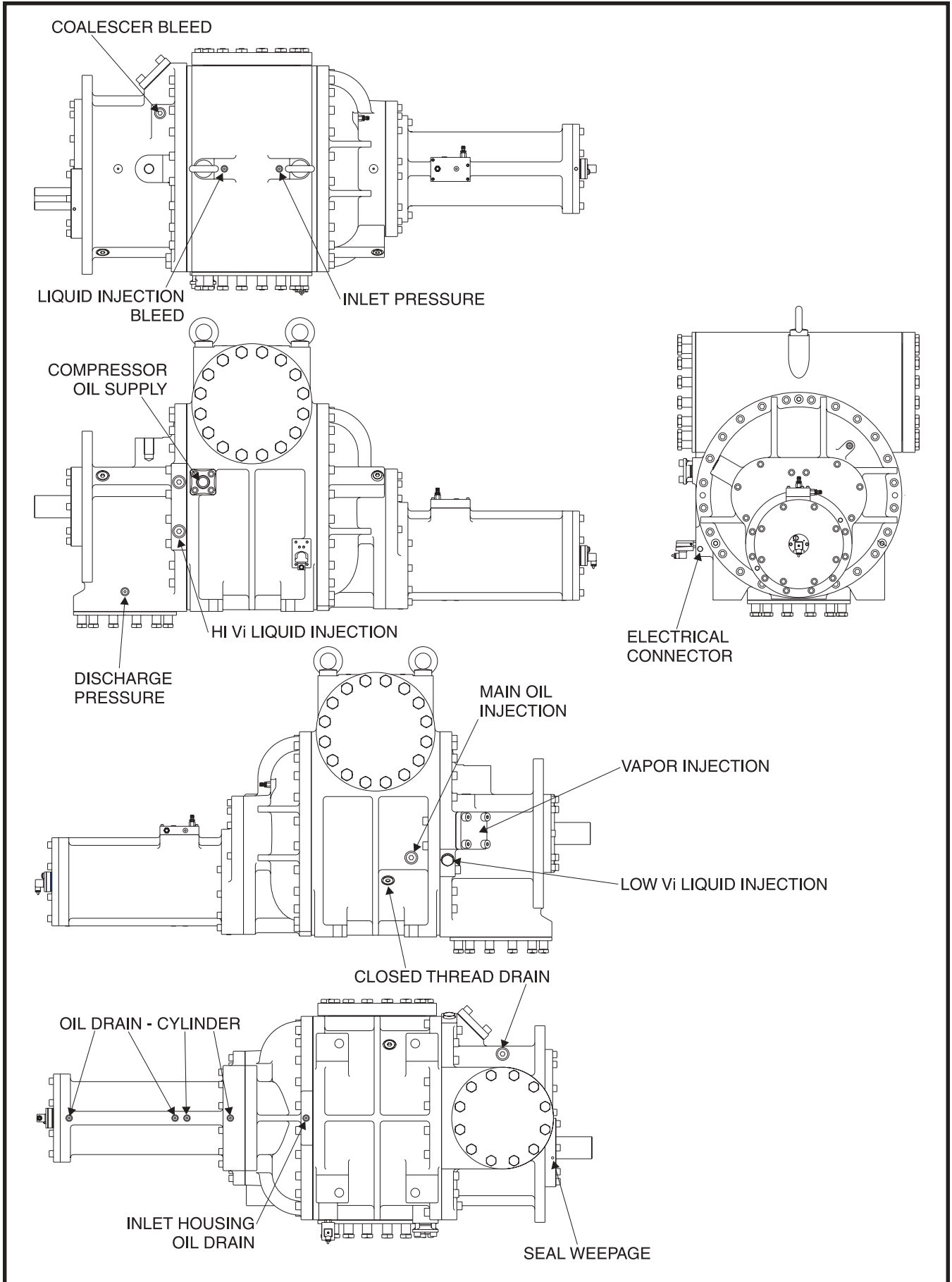


Figure 18. 2321 Compressor Ports Locations.





**Figure 19. 2813/2817 Compressor Ports Locations.**

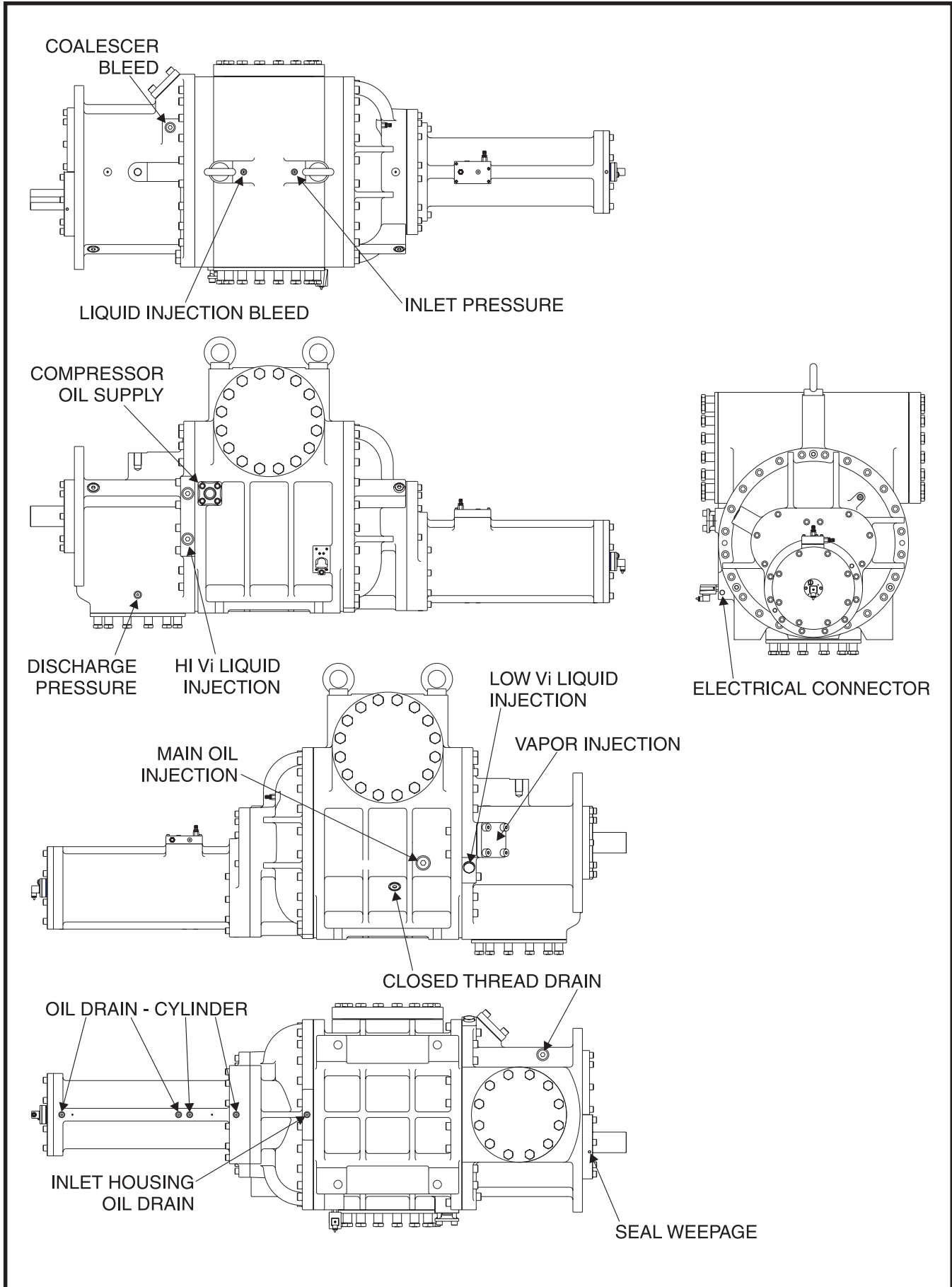


Figure 20. 2821 Compressor Ports Locations.

<b>COMPRESSOR PORT O-RINGS</b>						
<b>PORT</b>	<b>DESCRIPTION</b>	<b>100-134 O-RING</b>	<b>177-222 O-RING</b>	<b>270 O-RING</b>	<b>316-399 O-RING</b>	<b>480 O-RING</b>
SB-3	Compr Oil Supply	980A0012K66	980A0012K66	980A0012K66	980A0012K69	N/A
SC-5	Inlet Pressure	980A0012K60	980A0012K60	980A0012K60	980A0012K60	980A0012K60
SC-6	Discharge Pressure	980A0014K58	980A0014K58	980A0012K58	980A0014K58	980A0014K58
SC-8	Closed Thrd Drain	980A0012K66	980A0012K66	980A0012K66	980A0012K69	980A0012K69
SC-9	Inlet Hsg Oil Drain	980A0012K60	980A0012K60	980A0012K60	980A0012K60	980A0012K60
SC-13	Oil Drain Cylinder	980A0012K60	980A0012K60	980A0012K60	980A0012K60	980A0012K60
SC-14	Liquid Inj Bleed	980A0012K60	980A0012K60	980A0012K60	980A0012K60	980A0012K60
SD-1	Coalescer Bleed	980A0012K66	980A0012K66	980A0012K66	980A0012K66	980A0012K66
SL-1	Low Vi Liq Injection	980A0012K66	980A0012K66	980A0012K66	980A0012K69	980A0012K69
SL-2	High Vi Liq Injection	980A0012K66	980A0012K66	980A0012K66	980A0012K69	980A0012K69
SM-1	Main Oil Injection	980A0012K66	980A0012K66	980A0012K69	980A0012K69	980A0012K71
SV-1	Vapor Injection	N/A	N/A	N/A	N/A	N/A

<b>MISCELLANEOUSTUBING AND CONNECTORS</b>	
<b>ITEM NUMBER</b>	<b>DESCRIPTION</b>
111Q0880337	Tubing, S. S., 3/8 x .035"
941A0035H08	Tubing, 1/2 x .049" wall
941A0035H09	Tubing, 3/4 x .065" wall
941A0035H10	Tubing 1 x .083" wall
941A0035H11	Tubing, 1-1/4 x .120" wall
944A0114H10	Ell, S. S., 1-1/4 ODT x 1-1/4 FPT
944A0116H09	Conn, 1-1/2 ODT x 3/8 MPT
944A0117H08	Conn, S. S., 1/2 ODT x 1/2 FPT
944A0117H10	Conn, S. S., 1-1/4 ODT x 1-1/4 FPT
944A0439H01	Nipple, S. S., 1/4-18 NPT x 1-1/2"
944A0439H02	Nipple, S. S., 1/4-18 NPT x 2"
944A0439H03	Nipple, S. S., 1/4-18 NPT x 3"
944A0439H04	Nipple, S. S., 3/8-18 NPT x 2"

<b>FRICK FLANGE GASKETS</b>			
<b>GASKET NO.</b>	<b>FLANGE SIZE</b>	<b>ID</b>	<b>OD</b>
959A0057H01	1/4	29/32	1-11/32
959A0057H02	3/8 & 1/2	1-9/32	1-23/32
959A0057H03	3/4 & 1	1-21/32	2-3/32
959A0057H04	1-1/4	1-27/32	2-9/32
959A0057H05	1-1/2	2-1/8	2-3/4
959A0057H06	2-1/2	3	3-3/4
959A0057H07	2	2-1/2	3-1/4
959A0057H08	3-1/2	4-1/8	4-7/8
959A0057H09	4	4-3/4	5-1/2
959A0057H10	5	6-1/4	7
959A0057H11	6	7-3/8	8-1/8
959A0057H12	8	9-9/16	10-1/2
959A0057H13	10	11-7/8	12-15/16
959A0057H14	12	13-1/4	14-1/4
959A0057H15	14	14-3/4	16-1/32
959A0057H16	3/4	1-5/16	1-13/16
959A0057H18	3	3-5/8	4-3/8



**DISPLAY ASSEMBLY COMPONENT REPLACEMENT GUIDE**

DESCRIPTION	SAMSUNG	NEC	SHARP	LG PHILIPS
10.4" TFT Display	333Q0001180	333Q0001494	333Q0001581	649C1078H01
Backlight Inverter	333Q0001582*	333Q0001495	333Q0001582	333Q0001582
Cable - CPU To Display	640B0036H01	640B0043H01	640B0045H01	640B0065H01
Cable - CPU To Inverter	640B0032H01	640B0044H01	640B0032H01	640B0032H01
Replacement - Backlight	Not Available	333Q0001587	333Q0001588	333Q0001785
BIOS Software Version	All Versions	Version 1.12 and later	Version 1.12 and later	Version 4.00 and later
Display Replacement Assy.	640C0021G01	640C0021G01 Rev(A)	640C0021G01 Rev(B)	640C0052G01

\* or 333Q0001181

FRICK COMPRESSOR OILS			
Number	5 Gallon	55 Gallon	330 Gallon
2A	111Q0550019	111Q0550020	333Q0001866
3	111Q0550001	111Q0550010	333Q0001861
4	—	111Q0550005	—
5	111Q0550008	111Q0550009	—
6	333Q0000940	333Q0000941	—
7	111Q0550024	111Q0550025	—
9	333Q0000850	333Q0000849	333Q0001862
10	333Q0000740	333Q0000739	—
11	333Q0000852	333Q0000851	333Q0001863
12	333Q0001141	333Q0001142	—
13	333Q0001253	333Q0001254	—
14	333Q0001144	333Q0001145	—
18	—	333Q0001892	—
NG 1	—	333Q0001850	—
NG 2	—	333Q0001851	—
NG 3	—	333Q0001852	—

Oil Analysis Kit - 333Q0001853  
Tube of ODP Motor Grease - 333Q0001860

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

\* Spray Can

\*\* Matte finish epoxy paint. One gallon each of resin and cure that require mixing.

ITEM NUMBER	FIG. & INDEX NO.	ITEM NUMBER	FIG. & INDEX NO.	ITEM NUMBER	FIG. & INDEX NO.
82402549409	7-2	333Q0000897	13-35	534C1264H02	2-3
82402550809	7-3	333Q0001095	13-36	534C1264H03	2-3
82403549509	7-2	333Q0001183	13-6	534C1264H04	2-3
82403550909	7-3	333Q0001185	13-7	534C1264H05	2-3
82404549609	7-2	333Q0001191	13-8	534C1314H01	2-1
82404551009	7-3	333Q0001192	13-9	534C1478H01	2-1
82406549809	4-18	333Q0001194	13-11	534C1478H02	2-1
82406549809	5-2	333Q0001195	13-12	534D0523G02	2-2
82406549809	10-3	333Q0001196	13-13	534D1251H01	2-2
82406549809	15-11	333Q0001199	13-5	534D1251H03	2-2
82406549809	15-16	333Q0001234	13-16	534M0163G02	2-10
82406551209	5-3	333Q0001236	4-13	534M0163G03	2-10
82406551209	15-12	333Q0001237	4-15	534M0163G04	2-10
82407549909	4-18	333Q0001258	13-17	535A0144H01	4-6
82407549909	5-2	333Q0001268	4-9	535C0512G01	1-6
82407549909	6-1	333Q0001326	13-32	535E0113H01	2-5
82407549909	10-3	333Q0001404	13-39	535E0113H11	2-5
82407549909	15-11	333Q0001418	13-37	540D0217G02	3-10
82407549909	15-16	333Q0001423	13-40	540D0217G03	3-11
82407549909	15-17	333Q0001425	13-38	540D0217H06	3-9
82407551309	5-3	333Q0001582	13-2	553A0001H01	4-3
82407551309	15-12	333Q0001672	13-41	580C0357G09	3-7
82408536209	4-18	333Q0001810	3-4	580C0357G09	15-18
82408536209	5-2	333Q0001810	3-4	580C0358G09	3-7
82408536209	6-1	333Q0001810	3-4	580C0358G09	15-18
82408536209	15-11	333Q0001810	3-4	580C0361G09	3-7
82408536209	15-17	333Q0001810	7-4	580C0361G09	15-18
82408538209	5-3	333Q0001810	7-4	580C0362G09	3-7
82408538209	15-12	333Q0001810	7-4	580C0362G09	15-18
82409536309	10-3	333Q0001810	7-4	581C0158G01	1-7
82409536309	15-16	333Q0001810	7-4	581C0158G03	1-7
82410535409	1-7	333Q0001810	7-4	581C0159G01	1-7
82411535509	1-6	333Q0001810	7-12	581C0159G03	1-7
82411535509	1-7	333Q0001810	7-12	581C0160G01	1-7
82412535609	1-6	333Q0001810	7-12	581C0160G03	1-7
82412535609	1-7	333Q0001810	7-12	581C0168G01	1-7
82413535809	1-6	531A0105H04	3-1	581C0168G03	1-7
82413535809	1-7	531A0139H01	7-6	582C0030G01	1-7
82452022400	1-7	531A0218H01	4-10	582C0030G01	15-24
82452022500	1-7	531B0019H01	3-8	582C0030G03	1-7
82452022600	1-7	531B0019H01	3-8	582C0030G03	15-24
82452022800	1-7	531B0019H01	3-8	582C0031G01	1-7
82452023400	1-7	531B0019H01	3-8	582C0031G01	15-24
82452023500	1-7	531B0065H01	3-8	582C0031G03	1-7
82452023600	1-7	531B0065H01	3-8	582C0031G03	15-24
82452023800	1-7	531B0065H01	3-8	582C0032G01	1-7
111Q0280958	13-35	531B0065H01	3-8	582C0032G01	15-24
111Q0281061	13-29	534A0032H02	2-1	582C0032G03	1-7
111Q0451313	2-2	534A0046H01	2-2	582C0032G03	15-24
111Q0831800	13-36	534A0662H02	2-4	582C0034G01	1-6
333Q0000116	13-30	534A0662H03	2-4	582C0034G01	15-25
333Q0000196	13-35	534A0662H04	2-4	640A0032H01	13-4
333Q0000206	13-35	534B0062C01	2-2	640A0058H01	13-42
333Q0000517	2-9	534B0501H01	2-2	640B0031H01	13-19
333Q0000789	13-31	534C1264H01	2-3	640B0038H01	13-22

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640B0041H01	13—23	720C0079H01	12—1	902A0021H03	6—12
640B0042H01	13—23	720G0030H05	15—1	902A0021H03	10—6
640B0048H01	13—3	720M0034G04	3—7	902A0021H03	10—6
640B0049H01	13—3	720M0034G04	15—18	905A0007H05	4—14
640B4824H01	13—20	720M0034G05	3—7	905A0012H05	3—13
640C0022G01	13—3	720M0034G05	15—18	913A0047H01	3—4
640C0024G02	13—28	720M0034G06	3—7	913A0047H02	3—4
640C0026G02	13—34	720M0034G06	15—18	913A0047H03	3—4
640D0060H01	13—24	720M0034G07	3—7	913A0047H04	3—4
640D0062H01	13—27	720M0034G07	15—18	913A0092G01	3—4
640D0063H01	13—33	720M0166G01	1—6	913A0092G02	3—4
640D0121H01	14—5	720M0166G01	15—25	913A0092G03	3—4
649A0862H01	13—26	720M0167G01	1—6	913A0092G04	3—4
649A0883H10	13—14	720M0167G01	15—25	913A0094H01	3—6
649A0883H16	13—15	720M0182G01	1—6	913A0094H01	15—19
649A0893H01	14—3	720M0182G01	15—25	913A0095H01	2—2
649C1081H01	13—25	720M0182G02	1—6	913A0097G01	3—6
649D4601G01	1—5	720M0182G02	15—25	913A0097G01	15—19
649D4678H01	14—1	720M0187G01	1—6	913A0098H01	3—6
649D4688H01	14—1	720M0187G01	15—25	913A0100H01	3—6
649D4690H01	13—33	724001424GR	8—2	913A0110H01	1—6
649D4691H01	13—27	724001425GR	8—2	913A0110H01	15—20
649D4692H01	14—2	724001426GR	8—2	913A0110H02	2—11
649D4693H01	14—2	724001428GR	8—2	913A0110H02	4—17
649D4696H01	14—4	724001878GR	8—1	913A0110H02	5—4
649D4697H01	14—4	724001879GR	8—1	913A0110H02	15—20
649D4699H01	14—1	724001880GR	8—1	913A0123H01	3—5
649D4700H01	14—2	724001881GR	8—1	913A0123H11	3—5
649D4720H01	14—4	724008100GR	8—7	913A0123H12	3—5
649D4746H01	14—1	724008102GR	8—7	914A0015H02	11—1
649D4747H01	14—2	724008125GR	8—7	914A0015H02	11—1
649D4798H01	14—4	724008127GR	8—7	914A0015H02	11—1
720B0030G01	15—1	724008150GR	8—7	914A0015H02	11—1
720B0030H02	15—1	724008200GR	8—7	914A0015H02	11—1
720B0030H03	15—1	724008202GR	8—7	914A0015H02	11—1
720B0030H04	15—1	900A0007H01	4—11	914A0015H02	11—1
720B0030H06	15—1	900A0008H01	4—12	914A0015H03	11—1
720B0030H07	15—1	901A0043D05	4—8	914A0015H03	11—1
720B0030H08	15—1	901A0046D08	6—11	914A0015H03	11—1
720B0030H21	15—1	901A0046D09	6—11	914A0015H13	11—1
720C0044H01	12—1	901A0046D10	10—6	914A0015H14	11—1
720C0044H02	12—1	901A0046D11	10—6	914A0015H15	11—1
720C0044H03	12—1	901A0098H11	4—4	914A0015H16	11—1
720C0045H01	12—1	901A0172H03	6—6	914A0016H02	11—1
720C0045H02	12—1	901A0172H05	6—6	914A0016H02	11—1
720C0045H03	12—1	901A0192H13	15—25	914A0016H20	11—1
720C0058H01	12—1	901A0201H06	15—25	914A0016H23	11—1
720C0058H02	12—1	901A0202H20	2—7	944A0108H05	6—4
720C0058H03	12—1	901A0206H18	15—25	944A0108H07	6—4
720C0058H04	12—1	901A0206H19	15—25	944A0117H01	7—11
720C0063H01	15—25	901A0206H19	15—25	944A0126H06	6—9
720C0078H01	12—1	901A0207H17	15—25	944A0126H08	6—9
720C0078H02	12—1	902A0021H01	3—12	944A0356H02	10—6
720C0078H04	12—1	902A0021H01	4—16	944A0356H03	10—6
720C0078H06	12—1	902A0021H03	4—5	944A0357H02	10—6

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944A0357H03	10—6	950A0125H02	10—3	950A0240H09	1—7
944A0358H02	10—4	950A0125H02	15—16	950A0240H10	1—6
944A0358H03	10—4	950A0127H02	10—3	950A0240H10	1—7
944A0358H05	10—4	950A0127H02	15—16	950A0240H11	1—6
944A0360G25	10—6	950A0190G01	7—4	950A0240H11	1—7
944A0360G26	10—6	950A0190G02	7—4	950A0240H12	1—6
947A0003H01	3—2	950A0190G03	7—4	950A0241H07	4—18
947A0010H01	7—4	950A0190H01	7—4	950A0241H07	5—2
947A0010H02	7—4	950A0190H01	7—4	950A0241H07	6—1
947A0010H02	7—4	950A0190H01	7—4	950A0241H07	15—11
950A0001H06	10—1	950A0190H02	7—4	950A0241H07	15—17
950A0001H06	15—14	950A0190H02	7—4	950A0241H08	10—3
950A0001H09	10—1	950A0190H02	7—4	950A0241H08	15—16
950A0001H09	15—14	950A0190H11	7—4	950A0245H01	7—3
950A0001H25	10—1	950A0190H13	7—4	950A0245H02	7—3
950A0001H25	15—14	950A0190H13	7—4	950A0245H03	7—3
950A0001H28	10—1	950A0195H01	6—7	950A0245H05	5—3
950A0001H28	15—14	950A0195H01	15—13	950A0245H05	15—12
950A0019H01	15—1	950A0195H02	6—7	950A0245H06	5—3
950A0019H02	15—1	950A0195H02	15—13	950A0245H06	15—12
950A0019H03	15—1	950A0195H11	6—7	950A0253H07	5—3
950A0019H04	15—1	950A0195H11	6—7	950A0253H07	15—12
950A0055H07	6—2	950A0195H11	15—13	950A0260G01	1—6
950A0055H16	6—2	950A0195H11	15—13	950A0260G01	15—25
950A0055H27	6—2	950A0208G01	1—6	950A0261G01	1—6
950A0069H03	7—1	950A0209G01	1—6	950A0261G01	15—25
950A0069H04	7—1	950A0210G01	1—6	950A0261G03	1—6
950A0069H05	7—1	950A0215G01	7—4	950A0261G03	15—25
950A0069H07	6—2	950A0215G01	7—4	950A0262G01	1—6
950A0069H08	6—2	950A0215G01	7—4	950A0262G01	15—25
950A0069H21	7—1	950A0215G02	7—4	950A0281H01	15—1
950A0069H22	7—1	950A0215G02	7—4	951A0053G01	7—11
950A0069H23	7—1	950A0215G02	7—4	951A0053G01	7—11
950A0069H25	6—2	950A0222H01	6—7	951A0053G11	7—11
950A0069H25	6—2	950A0222H01	15—13	951A0053H01	7—11
950A0069H33	7—1	950A0222H11	6—7	951A0054H01	7—11
950A0069H34	7—1	950A0222H11	15—13	951A0056H34	2—9
950A0069H35	7—1	950A0233H01	7—2	951A0092H01	2—8
950A0069H37	6—2	950A0233H02	7—2	951A0092H02	2—8
950A0069H38	6—2	950A0233H03	7—2	951A0092H03	2—8
950A0075H06	6—8	950A0233H03	15—2	951A0092H04	2—8
950A0075H08	6—8	950A0233H03	15—22	951A0092H05	2—8
950A0075H09	6—8	950A0233H05	4—18	951A0092H06	2—8
950A0075H26	6—8	950A0233H05	5—2	951A0094H01	7—12
950A0075H28	6—8	950A0233H05	10—3	951A0094H02	7—12
950A0075H29	6—8	950A0233H05	15—11	951A0094H03	7—12
950A0075H46	6—8	950A0233H05	15—16	951A0094H04	7—12
950A0075H48	6—8	950A0233H06	4—18	951A0094H11	7—12
950A0075H49	6—8	950A0233H06	5—2	951A0094H12	7—12
950A0117H02	7—2	950A0233H06	6—1	951A0094H13	7—12
950A0118H02	7—3	950A0233H06	10—3	951A0094H14	7—12
950A0119H02	7—2	950A0233H06	15—11	952A0019H10	3—7
950A0120H02	7—3	950A0233H06	15—16	952A0019H10	15—18
950A0121H02	7—2	950A0233H06	15—17	952A0020H10	3—7
950A0122H02	7—3	950A0237H03	15—8	952A0020H10	15—18



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952A0021H09	3—7	956A0033H01	1—6	959A0054H33	2—3
952A0021H09	15—18	956A0033H01	15—25	959A0054H33	2—12
952A0022H09	3—7	956A0033H02	1—6	959A0054H33	3—3
952A0022H09	15—18	956A0033H02	1—6	959A0054H33	15—25
954A0008H01	7—10	956A0033H02	15—25	959A0054H33	15—25
954A0008H02	7—10	956A0033H02	15—25	959A0054H34	1—6
954A0008H03	7—10	956A0033H03	1—6	959A0054H34	1—6
954A0033H01	15—10	956A0033H03	1—6	959A0054H34	2—3
954A0033H02	15—10	956A0033H03	15—25	959A0054H34	15—25
954A0047H01	4—19	956A0033H04	1—6	959A0057H05	10—4
954A0047H01	5—5	956A0033H04	1—6	959A0057H05	10—6
954A0047H01	15—10	956A0033H04	15—25	959A0057H07	10—4
954A0053H01	7—5	956A0045H01	1—7	959A0057H07	10—5
954A0053H02	7—5	956A0045H02	1—7	959A0057H07	10—6
954A0053H03	7—5	956A0046H01	1—7	959A0057H18	10—4
954A0053H04	7—5	956A0046H02	1—7	959A0082H01	4—2
954A0053H05	7—5	956A0047H01	1—7	959A0089H02	7—4
954A0053H06	7—5	956A0047H02	1—7	959A0089H02	7—4
954A0053H07	7—5	957A0003H01	4—17	959A0089H02	7—5
954A0053H08	7—5	957A0003H01	5—4	959A0089H02	7—5
954A0053H09	7—5	957A0003H01	6—2	959A0089H02	7—5
954A0053H20	7—5	957A0003H01	6—2	959A0089H02	7—5
954A0053H20	7—5	957A0003H01	7—7	959A0089H02	7—5
954A0053H20	7—5	957A0003H01	15—6	959A0089H03	7—4
954A0053H20	7—5	957A0003H02	7—8	959A0089H03	7—5
954A0053H30	7—5	957A0003H02	15—23	959A0089H03	7—5
954A0053H30	7—5	957A0030H01	15—1	959A0089H03	7—5
954A0053H30	7—5	957A0030H01	15—9	959A0089H03	7—5
954A0053H30	7—5	957A0030H02	15—1	959A0098H01	1—6
954A0053H30	7—5	957A0030H02	15—9	959A0098H01	15—25
954A0059H01	4—19	959A0053H01	4—7	960A0066H11	11—1
954A0059H01	5—5	959A0054H06	6—10	960A0066H11	11—1
955A0012H01	3—7	959A0054H08	6—10	960A0066H11	11—1
955A0012H01	15—18	959A0054H25	6—5	960A0066H11	11—1
955A0012H02	3—7	959A0054H27	6—5	960A0066H11	11—1
955A0012H02	15—18	959A0054H30	2—12	960A0066H11	11—1
955A0023H01	3—7	959A0054H30	3—3	960A0066H11	11—1
955A0023H01	15—18	959A0054H31	1—6	960A0066H11	11—1
955A0024H01	3—7	959A0054H31	1—6	960A0066H11	11—1
955A0024H01	15—18	959A0054H31	2—3	960A0066H11	11—1
956A0012G03	6—3	959A0054H31	15—25	960A0066H11	11—1
956A0012G05	6—3	959A0054H32	1—6	960A0066H12	11—1
956A0012G10	6—3	959A0054H32	1—6	960A0066H12	11—1
956A0014H01	11—2	959A0054H32	1—6	960A0066H12	11—1
956A0014H02	11—2	959A0054H32	2—3	960A0073H13	11—1
956A0018H01	15—1	959A0054H32	2—3	960A0073H13	11—1
956A0025H23	10—2	959A0054H32	2—12	960A0073H13	11—1
956A0025H23	15—15	959A0054H32	3—3	960A0073H13	11—1
956A0025H24	10—2	959A0054H32	15—25	960A0082G01	11—1
956A0025H24	15—15	959A0054H32	15—25	960A0082G02	11—1
956A0025H25	10—2	959A0054H33	1—6	960A0082G03	11—1
956A0025H25	15—15	959A0054H33	1—6	960A0082G04	11—1
956A0031H11	15—21	959A0054H33	1—6	960A0082G05	11—1
956A0031H13	15—21	959A0054H33	2—3	960A0082G06	11—1
956A0033H01	1—6	959A0054H33	2—3	960A0082G07	11—1



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960A0082G08	11—1				
960A0082G09	11—1				
960A0082G10	11—1				
960A0082G11	11—1				
960A0082G12	11—1				
960A0082G13	11—1				
960A0082G14	11—1				
960A0082H01	11—1				
960A0082H01	11—1				
960A0082H01	11—1				
960A0082H01	11—1				
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960A0082H02	11—1				
960A0082H02	11—1				
960A0082H02	11—1				
960A0083G01	11—1				
960A0083G02	11—1				
960A0083G03	11—1				
960A0083G04	11—1				
960A0083H01	11—1				
960A0083H01	11—1				
960A0083H01	11—1				
960A0083H01	11—1				
980A0012K60	7—13				
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NOTES

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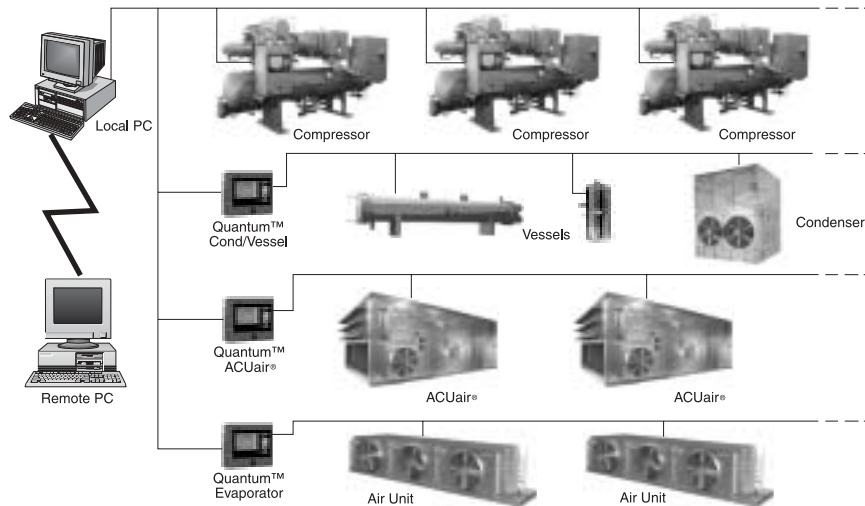
NOTES

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