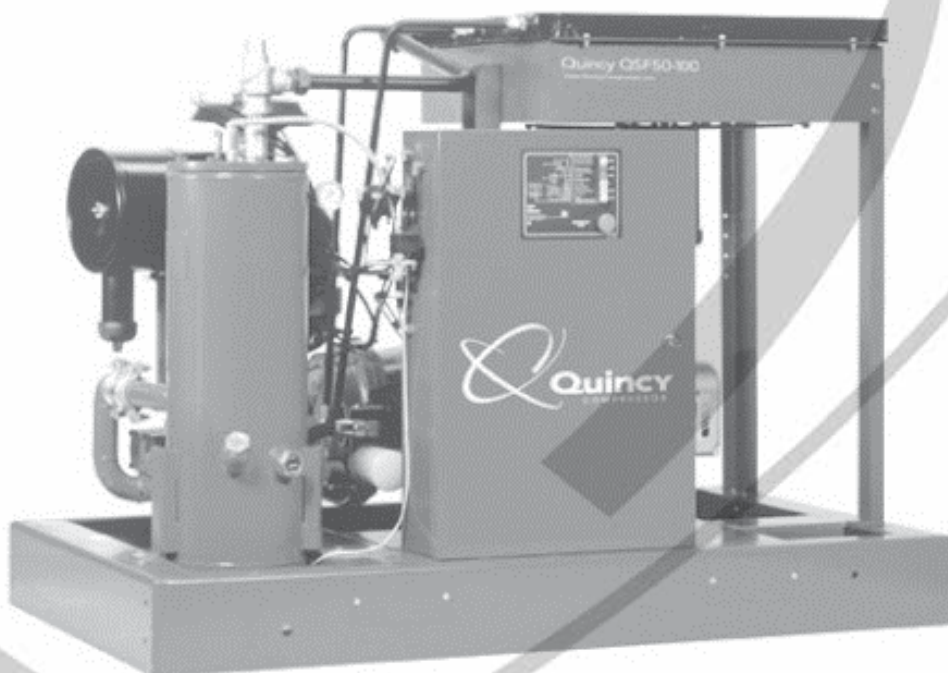




an EnPro Industries company

QSF 50/60

Direct Drive Rotary Screw Air Compressor



Parts Manual

This manual contains important safety information and should be made available to all personnel who operate and/or maintain this product. Carefully read this manual before attempting to operate or perform maintenance on this equipment.

Manual No. 55011-AB

April 1999 Edition

Manual Brought to You By: IndustrialAirPower.com

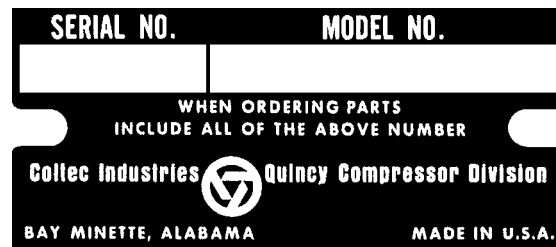
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NOTE: STOCK MODELS ARE AIR-COOLED ONLY.
REFER TO AIR-COOLED GROUPS WHERE STOCK GROUPS ARE NOT SPECIFIED.

SERIAL NUMBER IDENTIFICATION

The serial number tag is located on the top flange of the unit frame just left of the control panel and in the upper right corner of the electrical control panel.



ORDERING REPLACEMENT PARTS

Prompt service can be rendered on replacement part orders if the following information is given.

1. The serial number must be given when ordering replacement parts.
2. State the exact part number needed. **Do not order by index numbers**, as index numbers are repeated throughout this manual and if used for ordering parts will necessitate time consuming correspondence.
3. State the exact quantity needed.
4. State the preferred type of transportation.

All replacement parts are to be ordered through an authorized distributor. Insist on Genuine Quincy Parts only! Failure to do so may void your warranty.

WARNING

Guards must be fastened in place before starting the machine and never removed before disconnecting and locking out the main power supply.

DANGER

Air in the piping from this equipment will cause severe injury or death if used for breathing air or food processing (If non-food grade fluid is used). Air used for these processes must meet OSHA 29CFR1910.134 or FDA 21CFR178.3570 standards.

FLUID SPECIFICATIONS

• Recommendations

We recommend that all Quincy Rotary Screw Compressors be filled with fluids that meet one of the following specifications:

Synthetic Fluids

QUINSYN IV

QUINSYN

QUINSYN-F (Food Grade)

Synthetic fluids other than QUINSYN may not be compatible with components used in a Quincy compressor. If it is deemed necessary to convert any unit to a synthetic other than QUINSYN, please contact an authorized Quincy Compressor distributor. To locate your nearest distributor, contact Sales & Marketing in Quincy, Illinois:

Phone 217-222-7700, FAX 217-222-4138 or visit our website: <http://www.quincycompressor.com>.

The following information will be required by the distributor:

MODEL QSF: (circle configuration) A/C W/C 50 HP 60 HP

SERIAL NO. _____

FLUID ORIGINALLY USED _____

FLUID NOW USED (IF CHANGED) _____

FLUID TO BE USED _____

• Additional Information

Additional information can be found in the QSF Instruction Manual.

• Fluid Analysis Kit

Quincy Compressor now offers free fluid analysis to provide early detection of excessive parts wear, fluid breakdown, or a contaminated fluid system. Order the Fluid Analysis Kit (part no. 128515) from your local authorized Quincy Compressor distributor.

• Fluid Requirements

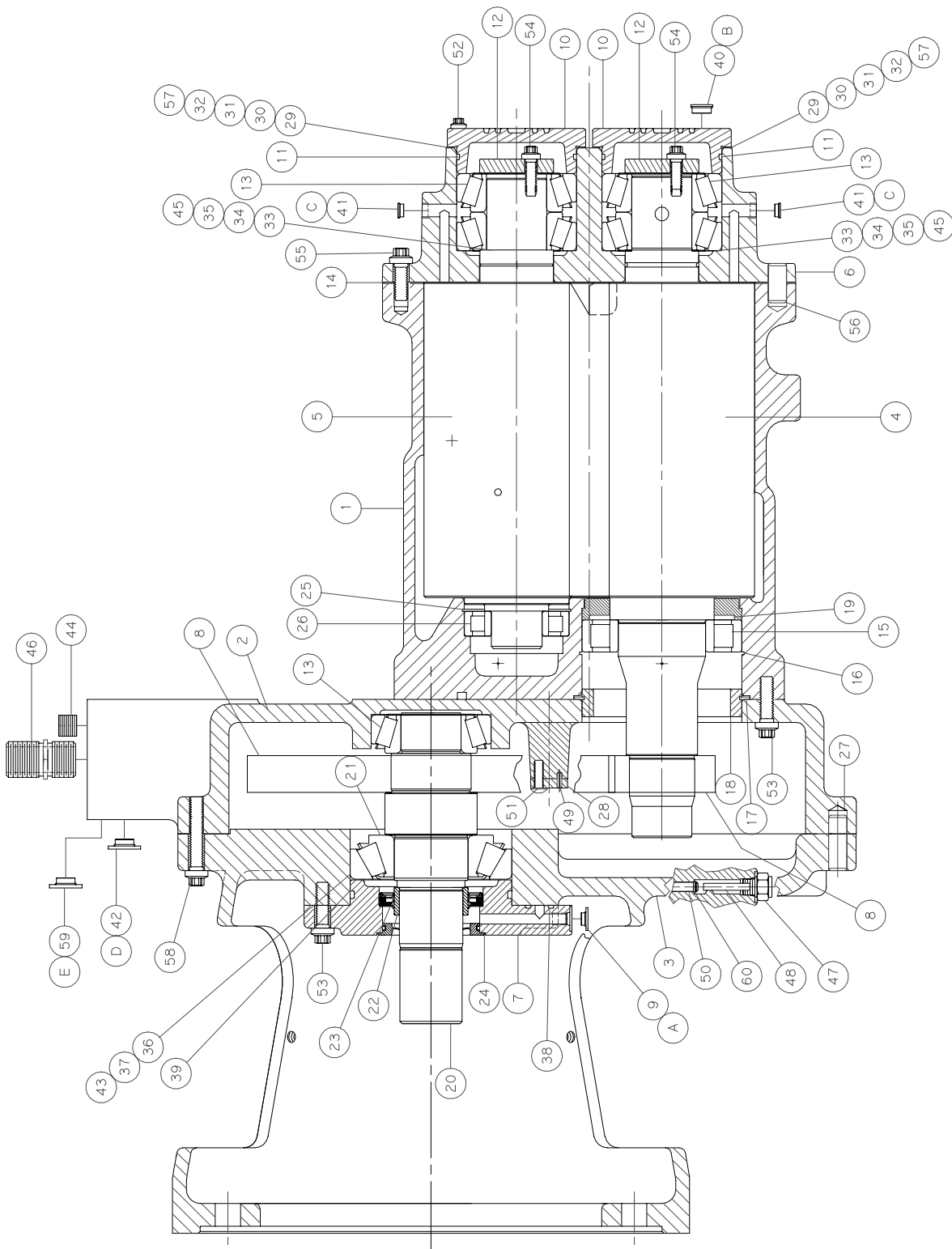
QSF AIR-COOLED

50 HP	6.5 gallons
60 HP	6.5 gallons

QSF WATER-COOLED

50 HP	7.5 gallons
60 HP	7.5 gallons

NOTE: ALL QSF UNITS ARE FILLED WITH QUINSYN IV FLUID UNLESS OTHERWISE SPECIFIED.

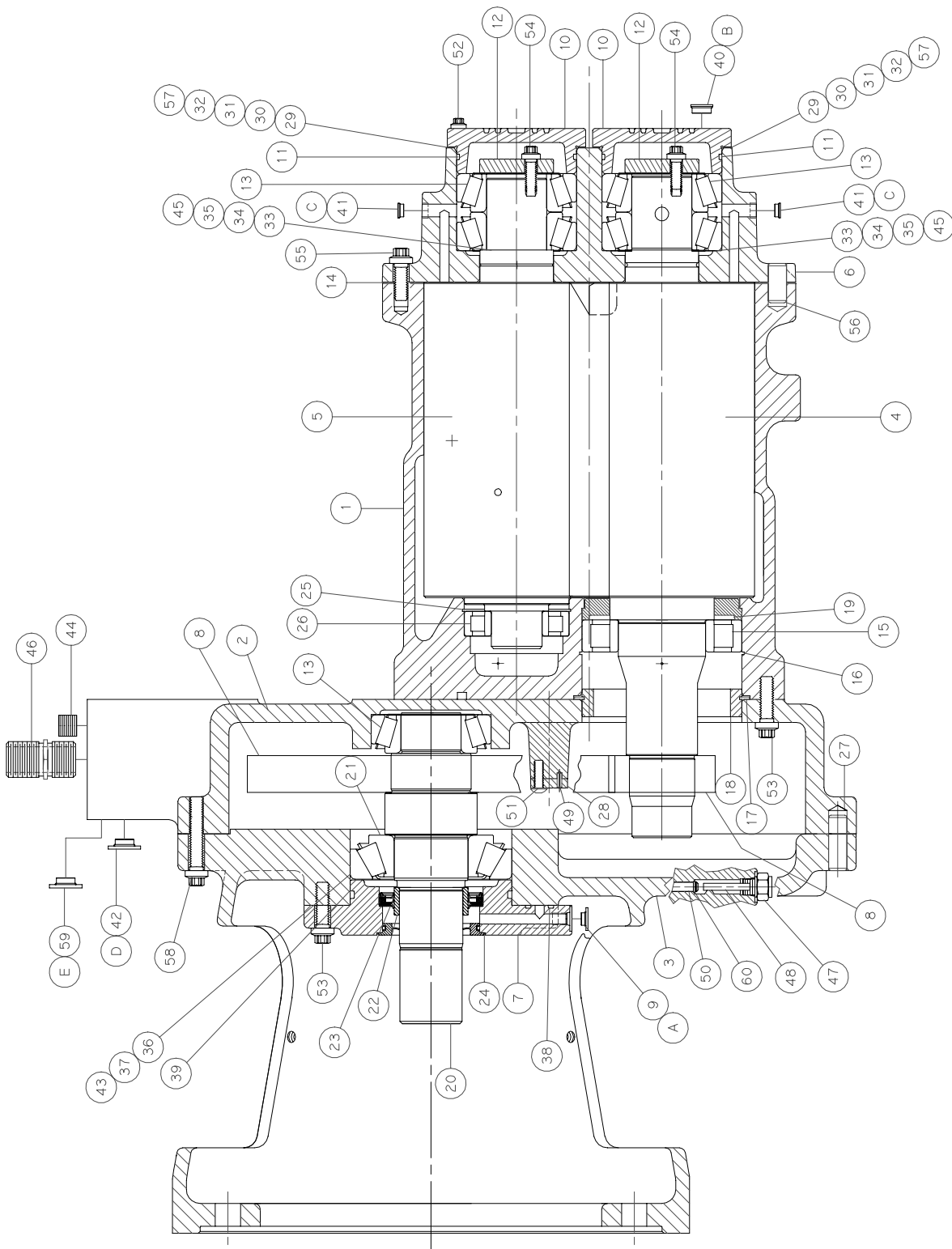


ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	*		HOUSING-ROTOR
2	*		HOUSING-GEAR
3	1	141925	ADAPTER-MOTOR
4	*		ROTOR-MALE
5	*		ROTOR-FEMALE
6	1	141977	CAP-END, DISCHARGE
7	1	141936	ADAPTER-SEAL
8	*		GEARS-MATCHED SET
9	1	128883-031	PLUG-PIPE, 5/16-24, SAE O-RING
10	2	125567	CAP-END, DISCHARGE
11	2	22749-151	O-RING, VITON
12	2	125572	RETAINER-BEARING
13	*		BEARING-ROTOR, DISCHARGE END
14	*	125577-001	GASKET-DISCHARGE PLATE
15	*		BEARING-ROTOR
16	1	129964-003	RING-RETAINING, BEARING
17	1	142193-001	RING-RETAINING
18	1	142069	RING-PILOT
19	1	143019	SEAL-AIR
20	1	142066	SHAFT-INPUT
21	*		BEARING-INPUT SHAFT
22	1	129610	SEAL-WEAR RING
23	1	140516	SEAL-SHAFT
24	1	129613	SEAL-DYNA LIP
25	1	125688	RING-RETAINING, BEARING
26	*		BEARING-ROTOR, SUCTION END
27	1	124145-005	PIN-DOWEL
28	1	142194	CAP-SPRAY NOZZLE
29	**	125576-002	SHIM-BEARING, (0.002)
30	**	125576-005	SHIM-BEARING, (0.005)

ITEMS 31 THRU 59 AND COMPONENT MAINTENANCE PARTS ARE ON FOLLOWING PAGES.

* Items not sold separately, must be ordered as a complete airend.

** Quantity as required.



ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
31	**	125576-010	SHIM-BEARING, (0.010)
32	**	125576-003	SHIM-BEARING, (0.003)
33	**	125575-002	SHIM-BEARING, (0.002)
34	**	125575-005	SHIM-BEARING, (0.005)
35	**	125575-010	SHIM-BEARING, (0.010)
36	**	141974-302	SHIM-3.62 X 4.36 X 0.002
37	**	141974-305	SHIM-3.62 X 4.36 X 0.005
38	1	22749-113	O-RING, VITON
39	1	22749-242	O-RING, VITON
40	12	128883-038	PLUG-PIPE, 3/8-24, SAE O-RING
41	2	128883-044	PLUG-PIPE, 7/16-20, SAE O-RING
42	1	128883-056	PLUG-PIPE, 9/16-18, SAE O-RING
43	**	141974-310	SHIM-3.62 X 4.36 X 0.010
44	1	140881-Q07	SCREW-SET, HEX, 5/8-11 UNC X 0.50
45	**	125575-003	SHIM-BEARING, (0.003)
46	1	129515	STUD-FILTER, FLUID
47	1	142265	PLUG-PIPE, 7/16-20, SAE O-RING
48	1	110705-F16	PIN-ROLL, 3/16 X 1.25
49	1	110705-D04	PIN-ROLL, 1/8 X 0.38
50	1	122054	PISTON-CAPACITY GAUGE CHECK VALVE
51	1	140655-J10	SCREW-BUTTONHEAD, 1/4-20 X 3/4
52	8	90386-J12	SCREW-COUNTERBORE, 1/4-20 UNC X 1.00, GRADE 8 (@ 9 FT-LBS)
53	13	90386-L14	SCREW-COUNTERBORE, 3/8-16 UNC X 1.25, GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS)
54	6	90386-K12	SCREW-COUNTERBORE, 5/16-18 UNC X 1.00, GRADE 8 (@13 FT-LBS)
55	9	90386-L12	SCREW-COUNTERBORE, 3/8-16 UNC X 1.00, GRADE 8 (@ 35 FT-LBS)
56	2	124145-006	PIN-DOWEL
57	**	125576-015	SHIM-BEARING, (0.015)
58	14	90386-M16	SCREW-COUNTERBORE, 7/16-20 UNC X 1.75, GRADE 8 (@ 60 FT-LBS)
59	1	128883-075	PLUG-PIPE, 3/4-16, SAE O-RING
60	1	123157-008	O-RING

COMPONENT MAINTENANCE PARTS

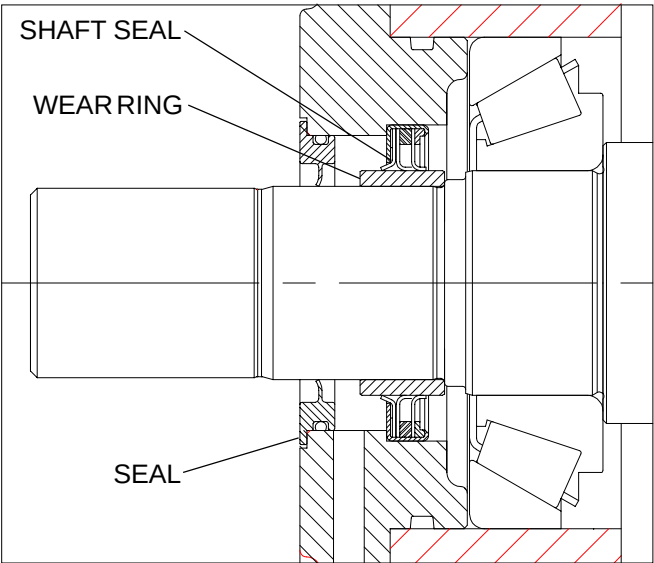
A	1	140406-902	O-RING, VITON
B	12	140406-903	O-RING, VITON
C	2	140406-904	O-RING, VITON
D	1	140406-905	O-RING, VITON
E	1	140406-908	O-RING, VITON

* Items not sold separately, must be ordered as a complete airend.

** Quantity as required.

@ indicates torque value in foot pounds. (lubricated threads)

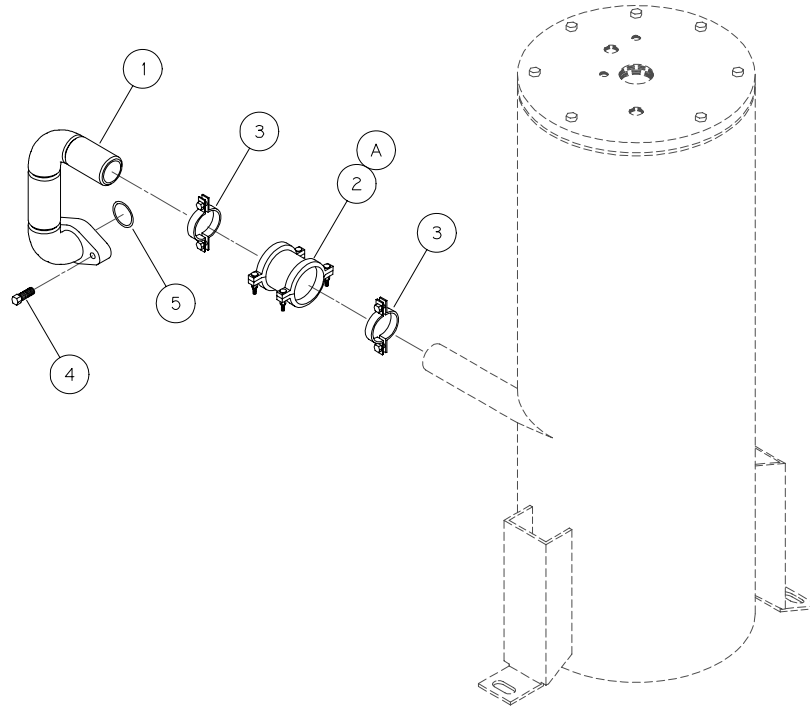
SHAFT SEAL KIT
140517



QTY.	PART NUMBER	DESCRIPTION
1	140517	KIT-SHAFT SEAL <i>(includes the following items)</i>
1	140516	SEAL-SHAFT
1	129610	SEAL-WEAR RING
1	129613	SEAL-DYNA-LIP

NOTICE! *Reference QSF Instruction Manual to install airend shaft seal. Tool Kit 140284 for QSF shaft seal and wear ring installation can be purchased from Quincy Compressor.*

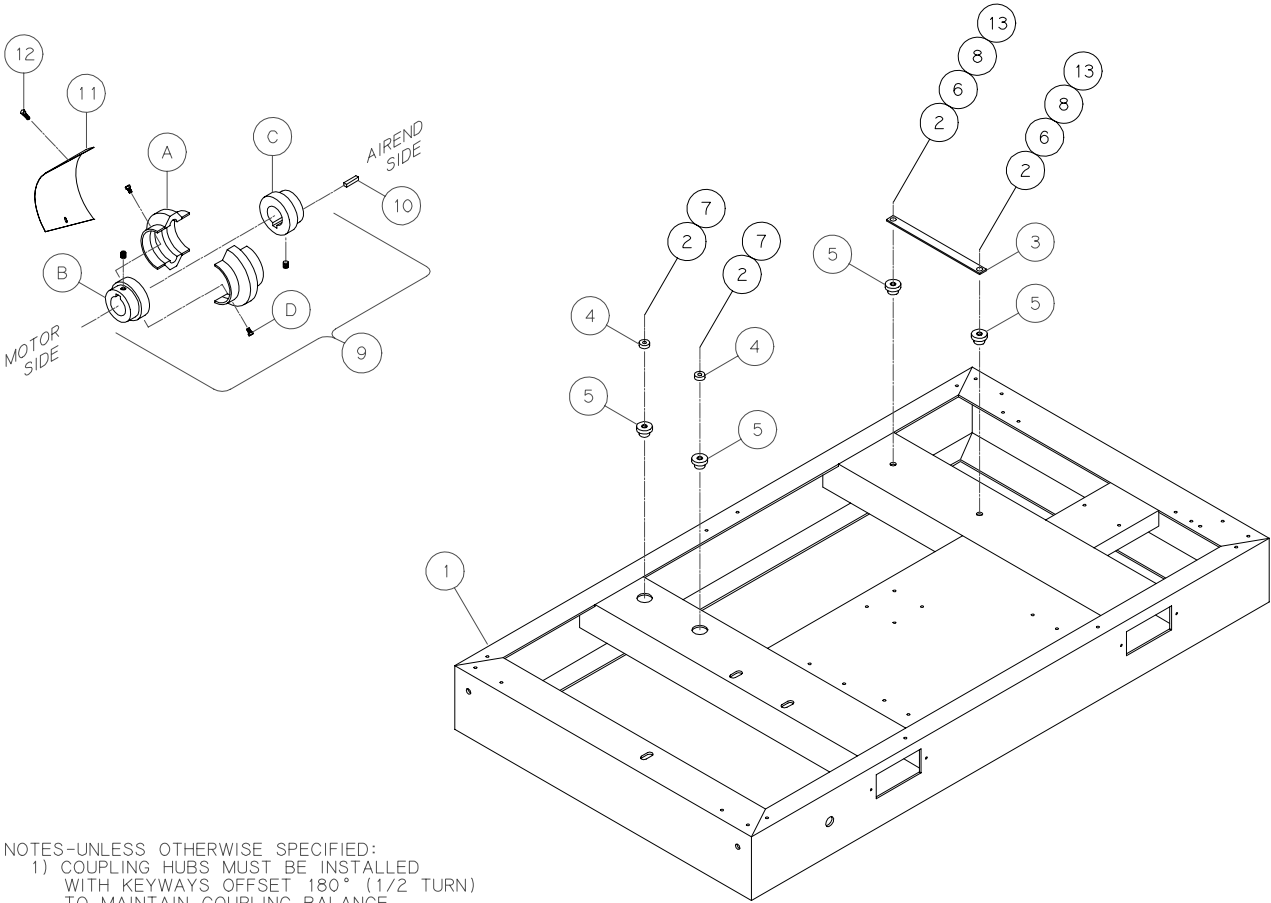
DISCHARGE PIPING GROUPS



ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		142200-001 (50 HP)	142200-002 (60 HP)	
1	1	141992-5	141992-6	MANIFOLD-DISCHARGE
2	1	140509S200	←	COUPLING-FLEXIBLE
3	2	124450G001	←	CLAMP-PIPE, 2.00, GALVANIZED
4	2	90386-L15	←	SCREW-COUNTERBORE, 3/8-16 UNC X 1.50, GRADE 8 (@ 35 FT-LBS)
5	1	22749-226	←	O-RING, VITON
COMPONENT MAINTENANCE PARTS				
A	2	140509G200	←	GASKET-COUPLING

@ indicates torque value in foot pounds. (lubricated threads)

BASE/COUPLING GROUPS



NOTES-UNLESS OTHERWISE SPECIFIED:
1) COUPLING HUBS MUST BE INSTALLED
WITH KEYWAYS OFFSET 180° (1/2 TURN)
TO MAINTAIN COUPLING BALANCE.

BASE/COUPLING GROUPS

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		142192-001 (50 HP)	142192-002 (60 HP)	
1	1	141991	←	BASE
2	4	122680-18	←	WASHER-FLAT, 0.53
3	1	142554	129497-004	SPACER-MOTOR
4	2	129059-9	←	SPACER-MOTOR
5	4	142201-02	←	MOUNT-MOTOR
6	2	110428W050	←	WASHER-FLAT, 1/2
7	2	142578-N21	←	SCREW-CAP, ZINC, 1/2-13 UNC X 3.00, GRADE 5 (@ 23 FT-LBS)
8	4	142578-N17	N/A	SCREW-CAP, ZINC, 1/2-13 UNC X 2.00, GRADE 5 (@ 23 FT-LBS)
	2	N/A	142578-N23	SCREW-CAP, ZINC, 1/2-13 UNC X 3.50, GRADE 5 (@ 23 FT-LBS)
9	1	128387-105	←	COUPLING-DRIVE
10	1	20109	←	KEY-SQUARE
11	2	142240	←	GUARD-COUPLING
12	4	141631-K10	←	SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)
13	2	N/A	124370-N02	LOCKNUT, 1/2-13 UNC

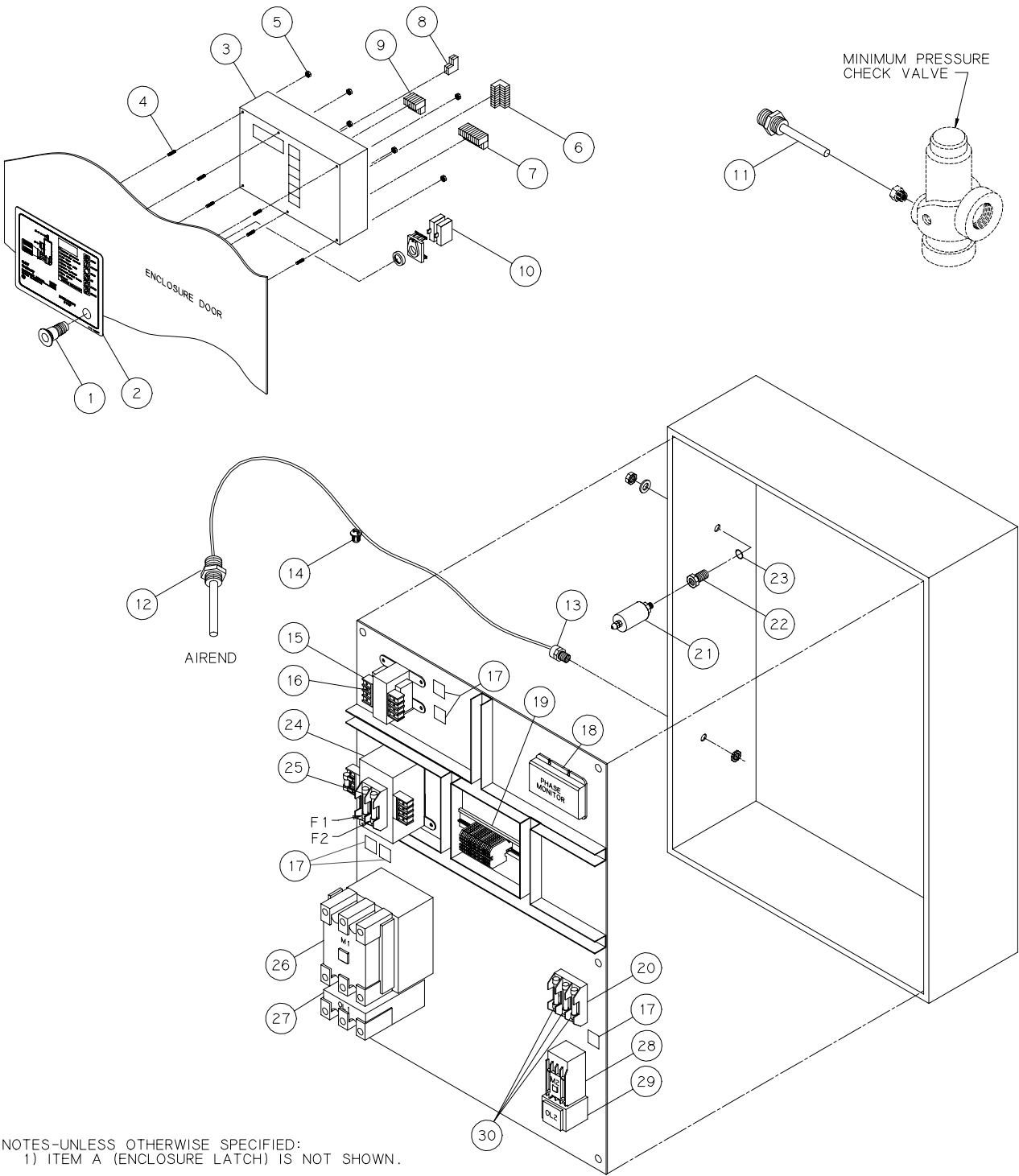
COMPONENT MAINTENANCE PARTS

A	1	128387-404	←	ELEMENT-DRIVE COUPLING <i>(includes set screw)</i>
B	1	128387-204	←	HUB-COUPLING, MOTOR SIDE <i>(includes set screw)</i>
C	1	128387-302	←	HUB-COUPLING, AIREND SIDE <i>(includes set screw)</i>
D	1	128387-502	←	BOLT KIT-DRIVE COUPLING (@30 FT-LBS)

@ indicates torque value in foot pounds. *(lubricated threads)*

STARTING GROUP (across the line, stock)

PIX5086



STARTING GROUP *(across the line, stock)*

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION	
1	1	129863-01	BUTTON-STOP	
2	1	142081	DECAL-ELECTRONIC CONTROLLER	
3	1	142131	CONTROLLER-ELECTRONIC	
4	6	160048-F09	SCREW-SET, #8-32 UNC	
5	6	124365-F02	NUT-#8-32 UNC	
6	1	142659-03	PLUG-HEADER, 9 PIN	
7	1	142659-04	PLUG-HEADER, 10 PIN	
8	1	142659-01	PLUG-HEADER, 2 PIN	
9	1	142659-02	PLUG-HEADER, 6 PIN	
10	1	129864-02	BLOCK-CONTACT, NORMALLY CLOSED	
11	2	122880-222	SWITCH-TEMPERATURE	
12	1	142132-01	PROBE-TEMPERATURE	
13	1	142096-04	FITTING-STRAIN RELIEF	
14	1	142388	INSERT-MOUNTING, CABLE TIE	
15	1	142085-01	TRANSFORMER-24 VOLT	
16	1	128622-030	FUSE-3 AMP	
17	5	40639	DECAL-NOTICE, FUSE RATING	
18	*		PHASE MONITOR (OPTIONAL)	(PAGE 14)
19	1	142334-05	ASSEMBLY-TERMINAL BLOCK	
20	1	126263-004	FUSE BLOCK	
21	1	142133	TRANSDUCER-PRESSURE	
22	1	129203-003	COUPLING-BULKHEAD, BRASS	
23	1	123157-117	O-RING	
24	*		TRANSFORMER	(PAGE 14)
25	*		FUSES-TRANSFORMER	(PAGE 14)
26	*		CONTACTOR-DRIVE MOTOR	(PAGE 14)
27	*		RELAY-OVERLOAD, DRIVE MOTOR	(PAGE 15)
28	1	141590-02	CONTACTOR-FAN MOTOR	
29	*		RELAY-OVERLOAD, FAN MOTOR	(PAGE 15)
30	*		FUSES-FAN MOTOR	(PAGE 15)
<u>COMPONENT MAINTENANCE PARTS</u>				
A	1	141784-001	LATCH-ENCLOSURE, NEMA 1	
	2	141784-002	LATCH-ENCLOSURE, NEMA 4	

NOTES:

- * Quantities and part numbers are listed in tabulations on the following pages.
 Stock units contain standard efficiency, air-cooled components only.

STARTING GROUP *(across the line, stock)*

ITEM 18	PHASE MONITOR (OPTIONAL)	
---------	--------------------------	--

	<i>QTY</i>	
200V	1	129200-001
230V	1	129200-001
380V	1	129200-003
415V	1	129200-003
460V	1	129200-002
575V	1	128422-003

ITEM 24	TRANSFORMER	
---------	-------------	--

	<i>QTY</i>	
200V	1	128413-351
230V	1	128413-353
380V	1	128413-356
415V	1	128413-354
460V	1	128413-353
575V	1	128413-355

ITEM 25	TRANSFORMER FUSES			
---------	-------------------	--	--	--

	<i>QTY</i>	<i>PRIMARY</i>	<i>QTY</i>	<i>SECONDARY</i>
200V	2	128857-006	1	128622-400
230V	2	128857-005	1	128622-400
380V	2	128857-004	1	128622-400
415V	2	128857-004	1	128622-400
460V	2	128857-014	1	128622-400
575V	2	128857-011	1	128622-400

ITEM 26	DRIVE MOTOR CONTACTOR	
---------	-----------------------	--

		50 HP	60 HP
	<i>QTY</i>		
200V	1	141590-13	141590-14
230V	1	141590-12	141590-14
380V	1	141590-10	141590-11
415V	1	141590-09	141590-10
460V	1	141590-09	141590-10
575V	1	141590-08	141590-09

STARTING GROUP (*across the line, stock*)

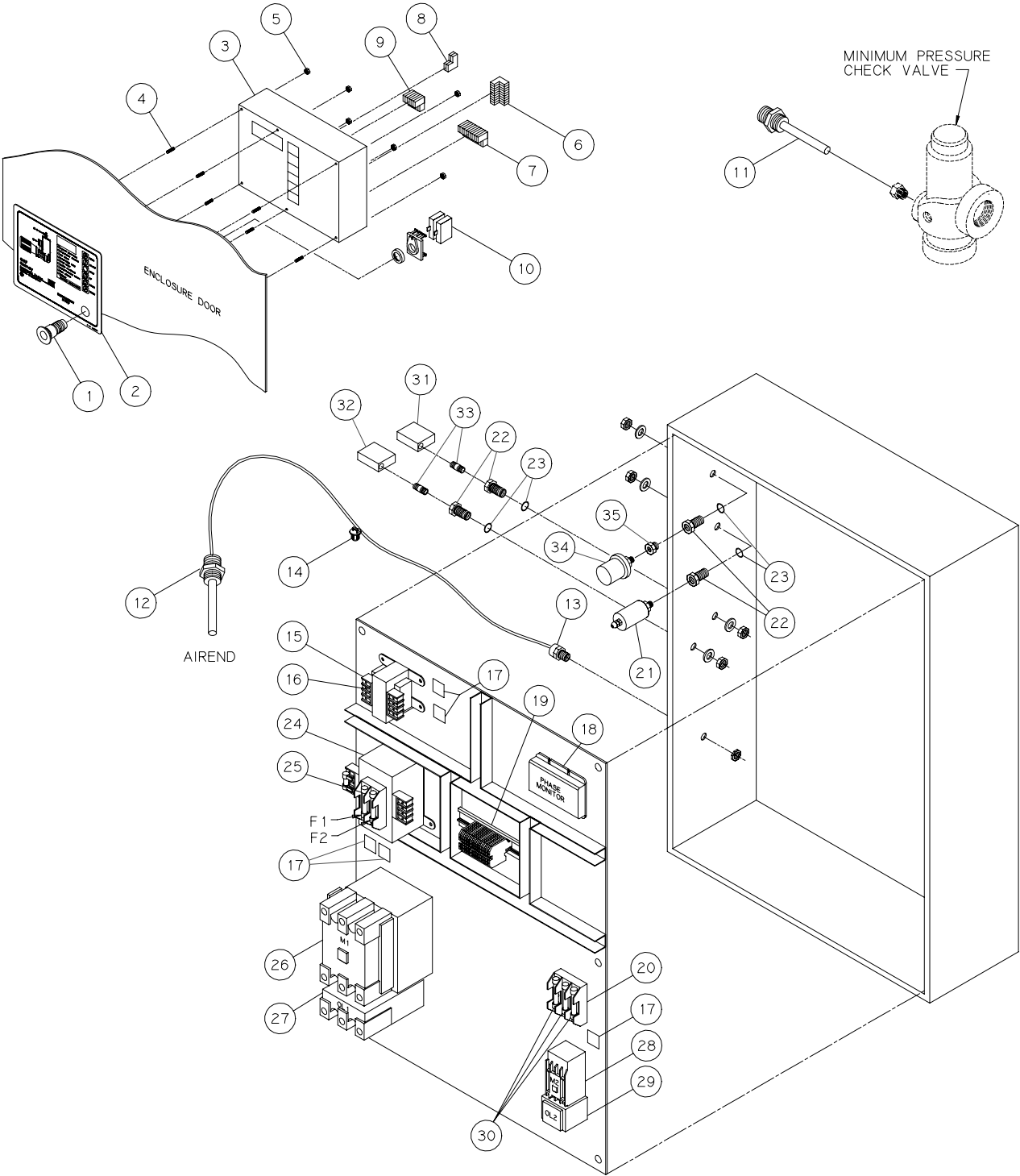
ITEM 27		DRIVE MOTOR OVERLOAD RELAY	
		50 HP	60 HP
	<i>QTY</i>		
200V	1	141591-082	141591-083
230V	1	141591-075	141591-082
380V	1	141591-063	141591-067
415V	1	141591-063	141591-064
460V	1	141591-062	141591-063
575V	1	141591-060	141591-061

ITEM 29		FAN MOTOR OVERLOAD RELAY	
		50 HP	60 HP
	<i>QTY</i>		
200V	1	141591-013	141591-014
230V	1	141591-012	141591-013
380V	1	141591-010	141591-011
415V	1	141591-009	141591-011
460V	1	141591-009	141591-010
575V	1	141591-008	141591-009

ITEM 30		FAN MOTOR FUSES	
		50 HP	60 HP
	<i>QTY</i>		
200V	3	128857-025	128857-026
230V	3	128857-024	128857-026
380V	3	128857-010	128857-023
415V	3	128857-020	128857-023
460V	3	128857-009	128857-022
575V	3	128857-008	128857-020

STARTING GROUP (across the line, standard)

PIX5085



NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEM A (LATCH) IS NOT SHOWN.
2) ITEMS 36 AND 37 (HEATER ELEMENTS) ARE NOT SHOWN.

STARTING GROUP *(across the line, standard)*

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION	
1	1	129863-01	BUTTON-STOP	
2	1	142081	DECAL-ELECTRONIC CONTROLLER	
3	1	142131	CONTROLLER-ELECTRONIC	
4	6	160048-F09	SCREW-SET, #8-32 UNC	
5	6	124365-F02	NUT-#8-32 UNC	
6	1	142659-03	PLUG-HEADER, 9 PIN	
7	1	142659-04	PLUG-HEADER, 10 PIN	
8	1	142659-01	PLUG-HEADER, 2 PIN	
9	1	142659-02	PLUG-HEADER, 6 PIN	
10	1	129864-02	BLOCK-CONTACT, NORMALLY CLOSED	
11	2	122880-222	SWITCH-TEMPERATURE	
12	1	142132-01	PROBE-TEMPERATURE	
13	1	142096-04	FITTING-STRAIN RELIEF	
14	1	142388	INSERT-MOUNTING, CABLE TIE	
15	1	142085-01	TRANSFORMER-24 VOLT	
16	1	128622-030	FUSE-3 AMP	
17	5	40639	DECAL-NOTICE, FUSE RATING	
18	*		PHASE MONITOR (OPTIONAL)	(PAGE 14)
19	1	142334-05	ASSEMBLY-TERMINAL BLOCK	
20	1	126263-004	FUSE BLOCK	
21	1	142133	TRANSDUCER-PRESSURE	
22	4	129203-003	COUPLING-BULKHEAD, BRASS	
23	4	123157-117	O-RING	
24	*		TRANSFORMER	(PAGE 14)
25	*		FUSES-TRANSFORMER	(PAGE 14)
26	*		CONTACTOR-DRIVE MOTOR	(PAGE 18)
27	*		RELAY-OVERLOAD, DRIVE MOTOR	(PAGE 18)
28	1	141290-02	CONTACTOR-FAN MOTOR	
29	*		RELAY-OVERLOAD, FAN MOTOR	(PAGE 18)
30	*		FUSES-FAN MOTOR	(PAGE 19)
31	1	129596-001**	SWITCH-DIFFERENTIAL PRESSURE, 10 PSI	
32	1	129596-002**	SWITCH-DIFFERENTIAL PRESSURE, 19 PSI	
33	2	142125-2**	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25	
34	1	129597-001**	SWITCH-VACUUM	
35	1	143046-008**	BUSHING-PIPE, 0.25 NPT X 1/8 NPT	
36	*		HEATER ELEMENT-DRIVE MOTOR	(PAGE 19)
37	*		HEATER ELEMENT-FAN MOTOR	(PAGE 19)

COMPONENT MAINTENANCE PARTS

A	1	141784-001	LATCH-ENCLOSURE, NEMA 1
	2	141784-002	LATCH-ENCLOSURE, NEMA 4

NOTES:

* Quantities and part numbers are listed in tabulations on the pages indicated.

** Items 31 thru 35 are available as options on stock models.

STARTING GROUP *(across the line, standard)*

ITEM 26		DRIVE MOTOR CONTACTOR	
		50 HP	60 HP
	QTY		
200V	1	141590-13	141590-14
230V	1	141590-12	141590-14
380V	1	141590-10	141590-11
415V	1	141590-09	141590-10
460V	1	141590-09	141590-10
575V	1	141590-08	141590-09

ITEM 27		DRIVE MOTOR OVERLOAD RELAY			
		STANDARD EFFICIENCY		PREMIUM EFFICIENCY	
		50 HP	60 HP	50 HP	60 HP
	QTY				
200V	1	141591-082	141591-083	141592-006	141592-006
230V	1	141591-075	141591-082	141592-005	141592-006
380V	1	141591-063	141591-067	141592-004	141592-004
415V	1	141591-063	141591-064	141592-004	141592-004
460V	1	141591-062	141591-063	141592-004	141592-004
575V	1	141591-060	141591-061	141592-004	141592-004

**NOTE: STANDARD EFFICIENCY OVERLOADS ARE CLASS 10.
PREMIUM EFFICIENCY OVERLOADS ARE CLASS 20.**

ITEM 29		FAN MOTOR OVERLOAD RELAY		
		AIR-COOLED		
		STANDARD EFFICIENCY		PREMIUM EFFICIENCY
		50 HP	60 HP	50 HP/60 HP
	QTY			
200V	1	141591-013	141591-014	141592-001
230V	1	141591-012	141591-013	141592-001
380V	1	141591-010	141591-011	141592-001
415V	1	141591-009	141591-011	141592-001
460V	1	141591-009	141591-010	141592-001
575V	1	141591-008	141591-009	141592-001
		WATER-COOLED W/CABINET		
		50 HP/60 HP		
	QTY			
200V	1	141591-007		
230V	1	141591-007		
380V	1	141591-004		
415V	1	141591-004		
460V	1	141591-004		
575V	1	141591-003		

**NOTE: STANDARD EFFICIENCY OVERLOADS ARE CLASS 10.
PREMIUM EFFICIENCY OVERLOADS ARE CLASS 20.**

STARTING GROUP *(across the line, standard)*

ITEM 30		FAN MOTOR FUSES		
		AIR-COOLED	WATER-COOLED W/CABINET	
		50 HP	60 HP	50 HP/60 HP
	QTY			
200V	3	128857-025	128857-026	128857-007
230V	3	128857-024	128857-026	128857-016
380V	3	128857-010	128857-023	128857-032
415V	3	128857-020	128857-023	128857-012
460V	3	128857-009	128857-022	128857-012
575V	3	128857-008	128857-020	128857-004

ITEM 36		DRIVE MOTOR HEATER ELEMENT	
		50 HP	60 HP
	QTY		
200V	3	141607-081	141607-083
230V	3	141607-076	141607-081
380V	3	141607-070	141607-072
415V	3	141607-069	141607-071
460V	3	141607-068	141607-070
575V	3	141607-065	141607-067

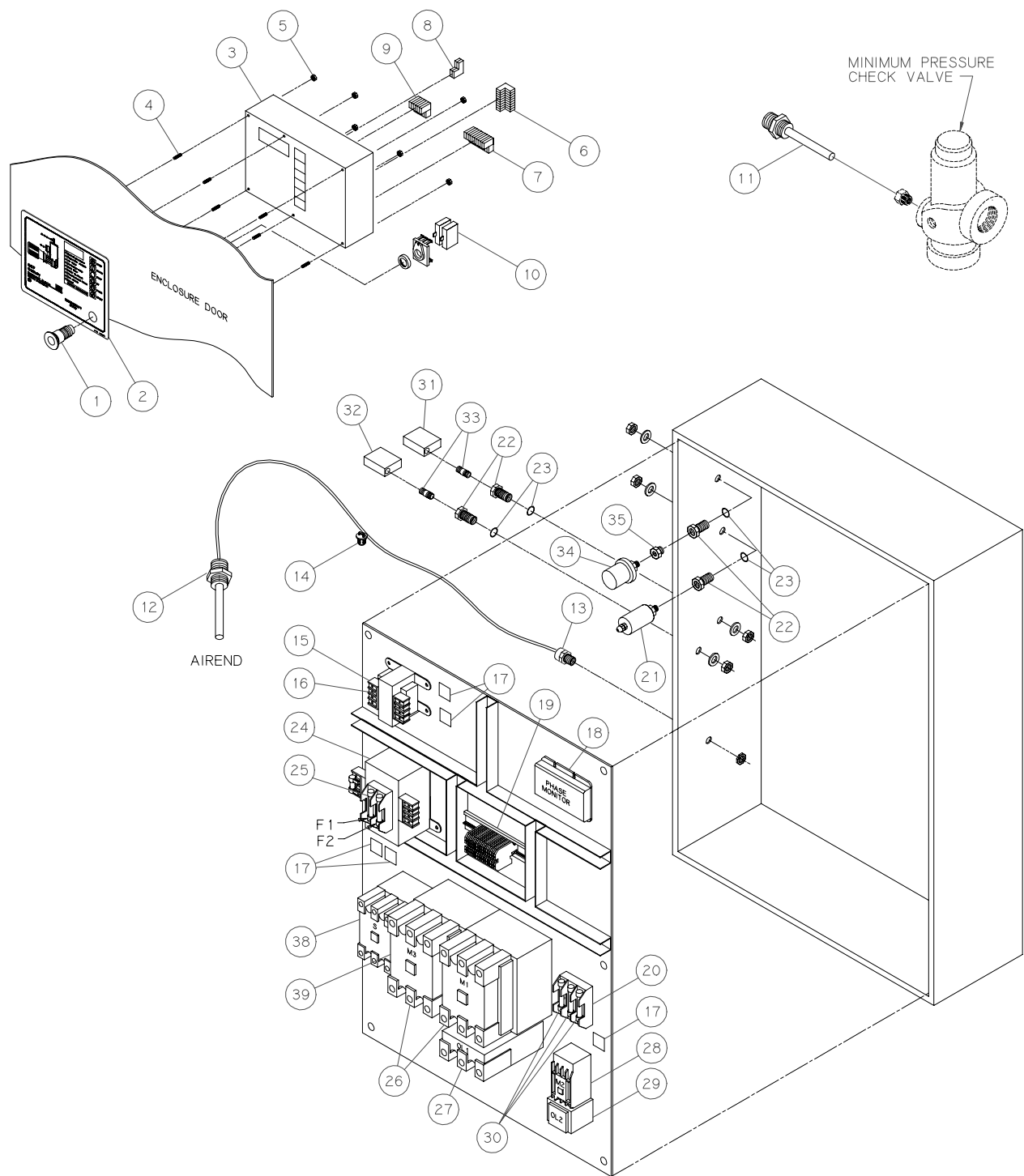
NOTE: HEATER ELEMENT USED ONLY WITH PREMIUM EFFICIENCY OVERLOADS.

ITEM 37		FAN MOTOR HEATER ELEMENT	
		AIR-COOLED	
		50 HP	60 HP
	QTY		
200V	3	141607-036	141607-040
230V	3	141607-035	141607-038
380V	3	141607-030	141607-033
415V	3	141607-029	141607-032
460V	3	141607-027	141607-031
575V	3	141607-025	141607-029

NOTE: HEATER ELEMENT USED ONLY WITH PREMIUM EFFICIENCY OVERLOADS.

STARTING GROUP (wye-delta)

PIX5051



NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEM A (LATCH) IS NOT SHOWN.
2) ITEMS 36 AND 37 (HEATER ELEMENTS) ARE NOT SHOWN.

STARTING GROUP (wye-delta)

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	129863-01	BUTTON-STOP
2	1	142081	DECAL-ELECTRONIC CONTROLLER
3	1	142131	CONTROLLER-ELECTRONIC
4	6	160048-F09	SCREW-SET, #8-32 UNC
5	6	124365-F02	NUT-#8-32 UNC
6	1	142659-03	PLUG-HEADER, 9 PIN
7	1	142659-04	PLUG-HEADER, 10 PIN
8	1	142659-01	PLUG-HEADER, 2 PIN
9	1	142659-02	PLUG-HEADER, 6 PIN
10	1	129864-02	BLOCK-CONTACT, NORMALLY CLOSED
11	2	122880-222	SWITCH-TEMPERATURE
12	1	142132-01	PROBE-TEMPERATURE
13	1	142096-04	FITTING-STRAIN RELIEF
14	1	142388	INSERT-MOUNTING, CABLE TIE
15	1	142085-01	TRANSFORMER-24 VOLT
16	1	128622-030	FUSE-3 AMP
17	5	40639	DECAL-NOTICE, FUSE RATING
18	*		PHASE MONITOR (OPTIONAL) (PAGE 14)
19	1	142334-05	ASSEMBLY-TERMINAL BLOCK
20	1	126263-004	FUSE BLOCK
21	1	142133	TRANSDUCER-PRESSURE
22	4	129203-003	COUPLING-BULKHEAD, BRASS
23	4	123157-117	O-RING
24	*		TRANSFORMER (PAGE 14)
25	*		FUSES-TRANSFORMER (PAGE 14)
26	*		CONTACTOR-DRIVE MOTOR (PAGE 22)
27	*		RELAY-OVERLOAD, DRIVE MOTOR (PAGE 22)
28	1	141290-02	CONTACTOR-FAN MOTOR
29	*		RELAY-OVERLOAD, FAN MOTOR (PAGE 18)
30	*		FUSES-FAN MOTOR (PAGE 19)
31	1	129596-001	SWITCH-DIFFERENTIAL PRESSURE, 10 PSI
32	1	129596-002	SWITCH-DIFFERENTIAL PRESSURE, 19 PSI
33	2	142125-2	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25
34	1	129597-001	SWITCH-VACUUM
35	1	143046-008	BUSHING-PIPE, 0.25 NPT X 1/8 NPT
36	*		HEATER ELEMENT-DRIVE MOTOR (PAGE 22)
37	*		HEATER ELEMENT-FAN MOTOR (PAGE 19)
38	*		CONTACTOR-SHORTING, DRIVE MOTOR (PAGE 23)
39	*		INTERLOCK-MECHANICAL (PAGE 23)

COMPONENT MAINTENANCE PARTS

A	1	141784-001	LATCH-ENCLOSURE, NEMA 1
	2	141784-002	LATCH-ENCLOSURE, NEMA 4

NOTES:

* Quantities and part numbers are listed in tabulations on the pages indicated.

STARTING GROUP (*wye-delta*)

ITEM 26		DRIVE MOTOR CONTACTOR	
		50 HP	60 HP
	QTY		
200V	2	141590-12	141590-12
230V	2	141590-11	141590-12
380V	2	141590-07	141590-08
415V	2	141590-07	141590-08
460V	2	141590-07	141590-08
575V	2	141590-06	141590-07

ITEM 27		DRIVE MOTOR OVERLOAD RELAY			
		STANDARD EFFICIENCY		PREMIUM EFFICIENCY	
		50 HP	60 HP	50 HP	60 HP
	QTY				
200V	1	141591-071	141591-073	141592-005	141592-005
230V	1	141591-065	141591-071	141592-005	141592-005
380V	1	141591-059	141591-059	141592-003	141592-004
415V	1	141591-058	141591-059	141592-003	141592-004
460V	1	141591-058	141591-059	141592-003	141592-004
575V	1	141591-050	141591-058	141592-002	141592-003

**NOTE: STANDARD EFFICIENCY OVERLOADS ARE CLASS 10.
PREMIUM EFFICIENCY OVERLOADS ARE CLASS 20.**

ITEM 36		DRIVE MOTOR HEATER ELEMENT	
		50 HP	60 HP
	QTY		
200V	3	141607-072	141607-073
230V	3	141607-070	141607-072
380V	3	141607-054	141607-065
415V	3	141607-053	141607-064
460V	3	141607-053	141607-064
575V	3	141607-051	141607-062

NOTE: HEATER ELEMENT USED ONLY WITH PREMIUM EFFICIENCY OVERLOADS.

STARTING GROUP (*wye-delta*)

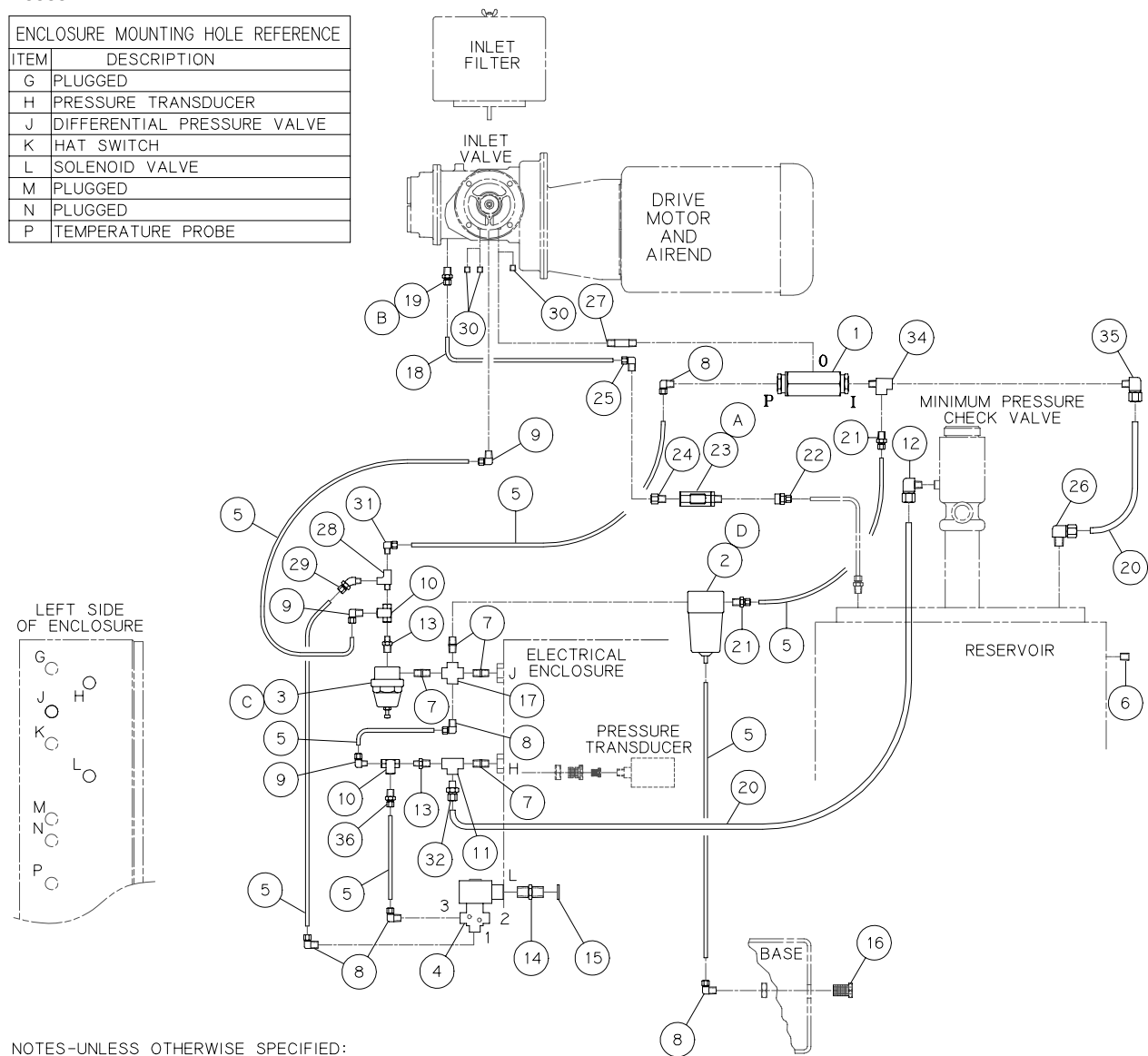
ITEM 38		DRIVE MOTOR SHORTING CONTACTOR	
		50 HP	60 HP
	<i>QTY</i>		
200V	1	141590-08	141590-08
230V	1	141590-07	141590-08
380V	1	141590-07	141590-07
415V	1	141590-07	141590-07
460V	1	141590-07	141590-07
575V	1	141590-05	141590-07

ITEM 39		MECHANICAL INTERLOCK	
	<i>QTY</i>		
200V	1	141594-01	
230V	1	141594-01	
380V	1	141594-01	
415V	1	141594-01	
460V	1	141594-01	
575V	1	141594-04	

CONTROL PIPING GROUP (stock)

143383-1

ENCLOSURE MOUNTING HOLE REFERENCE	
ITEM	DESCRIPTION
G	PLUGGED
H	PRESSURE TRANSDUCER
J	DIFFERENTIAL PRESSURE VALVE
K	HAT SWITCH
L	SOLENOID VALVE
M	PLUGGED
N	PLUGGED
P	TEMPERATURE PROBE



CONTROL PIPING GROUP *(stock)*

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	128826	ASSEMBLY-BLOWDOWN VALVE
2	1	129732	FILTER-LINE, AUTOMATIC
3	1	21969-2	VALVE-DIFFERENTIAL PILOT
4	1	120496-5	VALVE-SOLENOID, 3-WAY
	1	120496-4	VALVE-SOLENOID, 3-WAY (HIGH PRESSURE OPTION)
5	25.5 FT	140620-003	TUBING-NYLON, 1/4 O.D.
6	1	2719	PLUG-PIPE, HEX SOCKET, 1/4 NPT
7	4	142125-1	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE
8	5	124349-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
9	3	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
10	2	90084	VALVE-SHUTTLE
11	1	121034-2	TEE-PIPE, BRASS, 0.25 NPT
12	1	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
13	2	111098-002	NIPPLE-BRASS, 0.12 NPT X 0.25 NPT X CLOSE
14	1	22455	CONNECTOR-ELECTRICAL, 1/2
15	1	8052	LOCKNUT-CONDUIT, 1/2
16	1	129203-003	COUPLING-BULKHEAD
17	1	6150	CROSS-PIPE, BRASS, 0.25 NPT
18	7.0 FT	140333	TUBE-STAINLESS STEEL, 0.25 O.D.
19	1	128885-003	FITTING-MALE CONNECTOR, 1/4 TUBE X 7/16-20, SAE O-RING
20	10.8 FT	140620-004	TUBING-NYLON, 3/8 O.D.
21	2	124393-005	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/4 NPT
22	1	126354-005	FITTING-FEMALE CONNECTOR, 1/4 TUBE X 1/4 NPT
23	1	129545	GAUGE-SIGHT FLOW
24	1	125025	ORIFICE-LINE FILTER (0.040)
25	1	110419-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
26	1	124349-012	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/2 NPT
27	1	142125-5	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 2.38
28	1	143241	TEE-PIPE, BRASS, 0.12 NPT
29	1	128967-001	FITTING-ELBOW, 45° MALE, 1/4 TUBE X 1/8 NPT
30	3	121160	PLUG-PIPE, 1/8 NPT
31	1	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
32	1	124393-012	FITTING-MALE CONNECTOR, 3/8 TUBE X 1/4 NPT
33	6	20222-01	TIE-CABLE, SELF LOCK, BLACK
34	1	7361	TEE-PIPE, BRASS, 0.25 NPT
35	1	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
36	1	124393-004	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/8 NPT

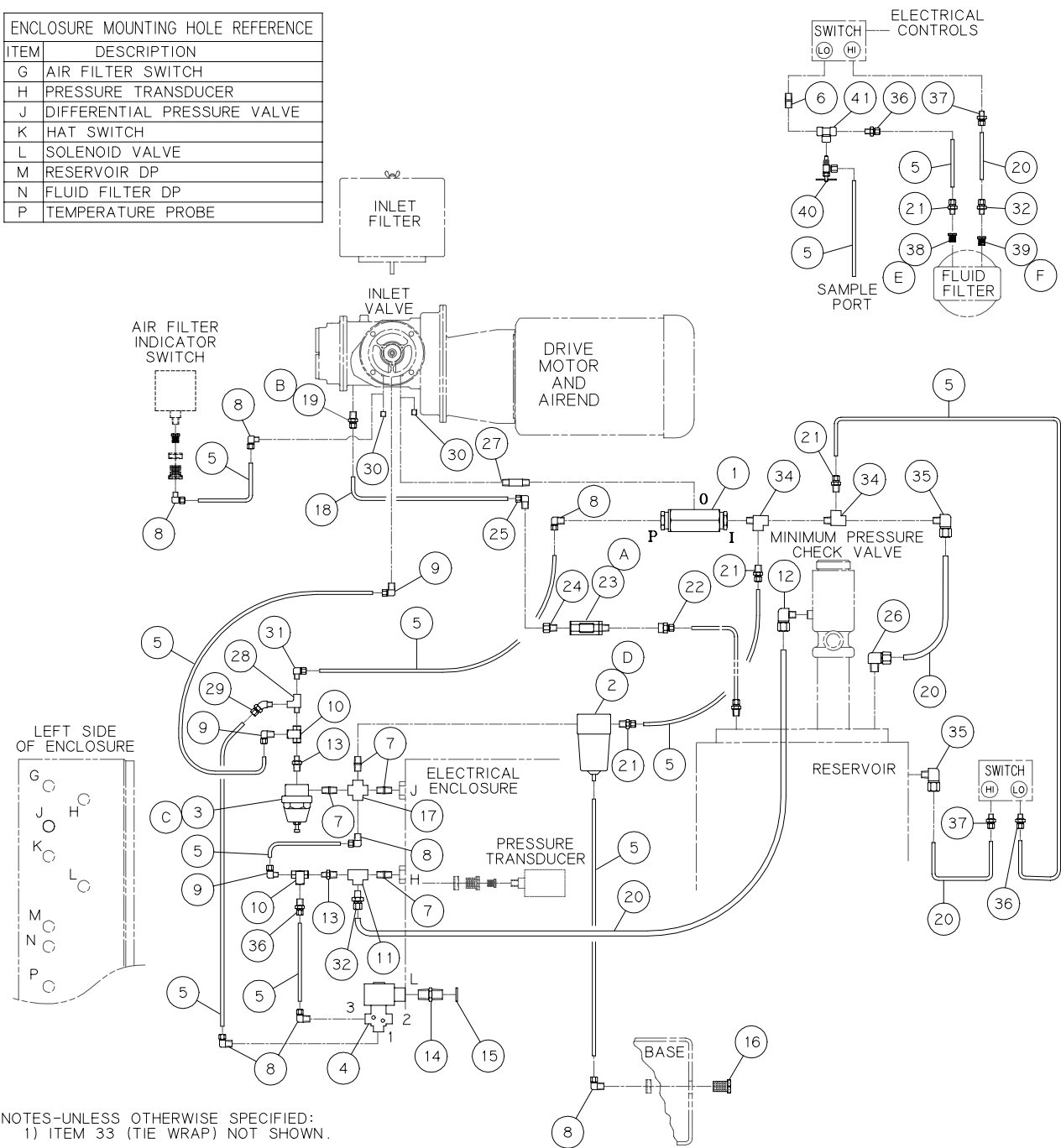
COMPONENT MAINTENANCE PARTS

A	1	129545-050	KIT-FLOW GAUGE <i>(includes sight glass, viton seals)</i>
B	1	140406-904	O-RING, VITON
C	1	20775	KIT-DIFFERENTIAL PILOT VALVE <i>(includes diaphragm, diaphragm gaskets, seat gasket, seat disk, seat ring)</i>
D	1	129732-050	KIT-LINE FILTER <i>(includes gasket, bowl seal, filter element)</i>

CONTROL PIPING GROUP (stock option) **(with differential pressure switches)**

143383-2

ENCLOSURE MOUNTING HOLE REFERENCE	
ITEM	DESCRIPTION
G	AIR FILTER SWITCH
H	PRESSURE TRANSDUCER
J	DIFFERENTIAL PRESSURE VALVE
K	HAT SWITCH
L	SOLENOID VALVE
M	RESERVOIR DP
N	FLUID FILTER DP
P	TEMPERATURE PROBE



CONTROL PIPING GROUP (stock option)
(with differential pressure switches)

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	128826	ASSEMBLY-BLOWDOWN VALVE
2	1	129732	FILTER-LINE, AUTOMATIC
3	1	21969-2	VALVE-DIFFERENTIAL PILOT
4	1	120496-5	VALVE-SOLENOID, 3-WAY
	1	120496-4	VALVE-SOLENOID, 3-WAY (HIGH PRESSURE OPTION)
5	25.5 FT	140620-003	TUBING-NYLON, 1/4 O.D.
6	1	142125-13	NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE
7	4	142125-1	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE
8	7	124349-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
9	3	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
10	2	90084	VALVE-SHUTTLE
11	1	121034-2	TEE-PIPE, BRASS, 0.25 NPT
12	1	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
13	2	111098-002	NIPPLE-BRASS, 0.12 NPT X 0.25 NPT X CLOSE
14	1	22455	CONNECTOR-ELECTRICAL, 1/2
15	1	8052	LOCKNUT-CONDUIT, 1/2
16	1	129203-003	COUPLING-BULKHEAD
17	1	6150	CROSS-PIPE, BRASS, 0.25 NPT
18	7.0 FT	140333	TUBE-STAINLESS STEEL, 0.25 O.D.
19	1	128885-003	FITTING-MALE CONNECTOR, 1/4 TUBE X 7/16-20, SAE O-RING
20	10.8 FT	140620-004	TUBING-NYLON, 3/8 O.D.
21	4	124393-005	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/4 NPT
22	1	126354-005	FITTING-FEMALE CONNECTOR, 1/4 TUBE X 1/4 NPT
23	1	129545	GAUGE-SIGHT FLOW
24	1	125025	ORIFICE-LINE FILTER (0.040)
25	1	110419-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
26	1	124349-012	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/2 NPT
27	1	142125-5	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 2.38
28	1	143241	TEE-PIPE, BRASS, 0.12 NPT
29	1	128967-001	FITTING-ELBOW, 45° MALE, 1/4 TUBE X 1/8 NPT
30	2	121160	PLUG-PIPE, 1/8 NPT
31	1	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
32	2	124393-012	FITTING-MALE CONNECTOR, 3/8 TUBE X 1/4 NPT
33	6	20222-01	TIE-CABLE, SELF LOCK, BLACK
34	2	7361	TEE-PIPE, BRASS, 0.25 NPT
35	2	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
36	3	124393-004	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/8 NPT
37	2	124393-010	FITTING-MALE CONNECTOR, 3/8 TUBE X 1/8 NPT
38	1	140106-002	FITTING-ADAPTER, 3/4-16 X 1/4-8 NPTF, SAE O-RING
39	1	140106-001	FITTING-ADAPTER, 9/16-18 X 1/4-6 NPTF, SAE O-RING
40	1	142947	VALVE-ANGLE, NEEDLE
41	1	121034-1	TEE-PIPE, BRASS, 0.12 NPT

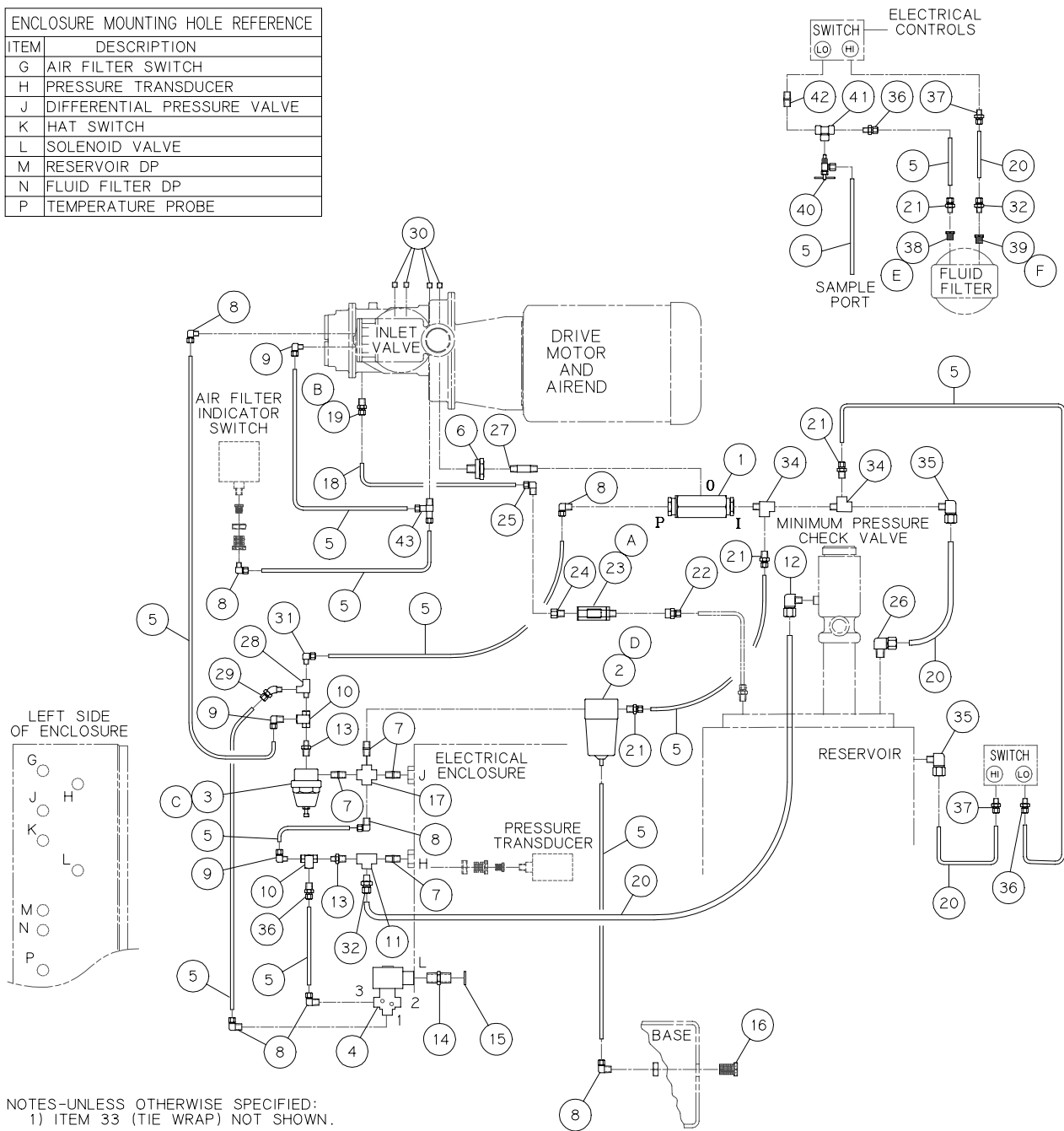
COMPONENT MAINTENANCE PARTS

A	1	129545-050	KIT-FLOW GAUGE <i>(includes sight glass, viton seals)</i>
B	1	140406-904	O-RING, VITON
C	1	20775	KIT-DIFFERENTIAL PILOT VALVE <i>(includes diaphragm, diaphragm gaskets, seat gasket, seat disk, seat ring)</i>
D	1	129732-050	KIT-LINE FILTER <i>(includes gasket, bowl seal, filter element)</i>
E	1	140406-908	O-RING, VITON
F	1	140406-906	O-RING, VITON

CONTROL PIPING GROUP (standard, with modulation)

143383-3

ENCLOSURE MOUNTING HOLE REFERENCE	
ITEM	DESCRIPTION
G	AIR FILTER SWITCH
H	PRESSURE TRANSDUCER
J	DIFFERENTIAL PRESSURE VALVE
K	HAT SWITCH
L	SOLENOID VALVE
M	RESERVOIR DP
N	FLUID FILTER DP
P	TEMPERATURE PROBE



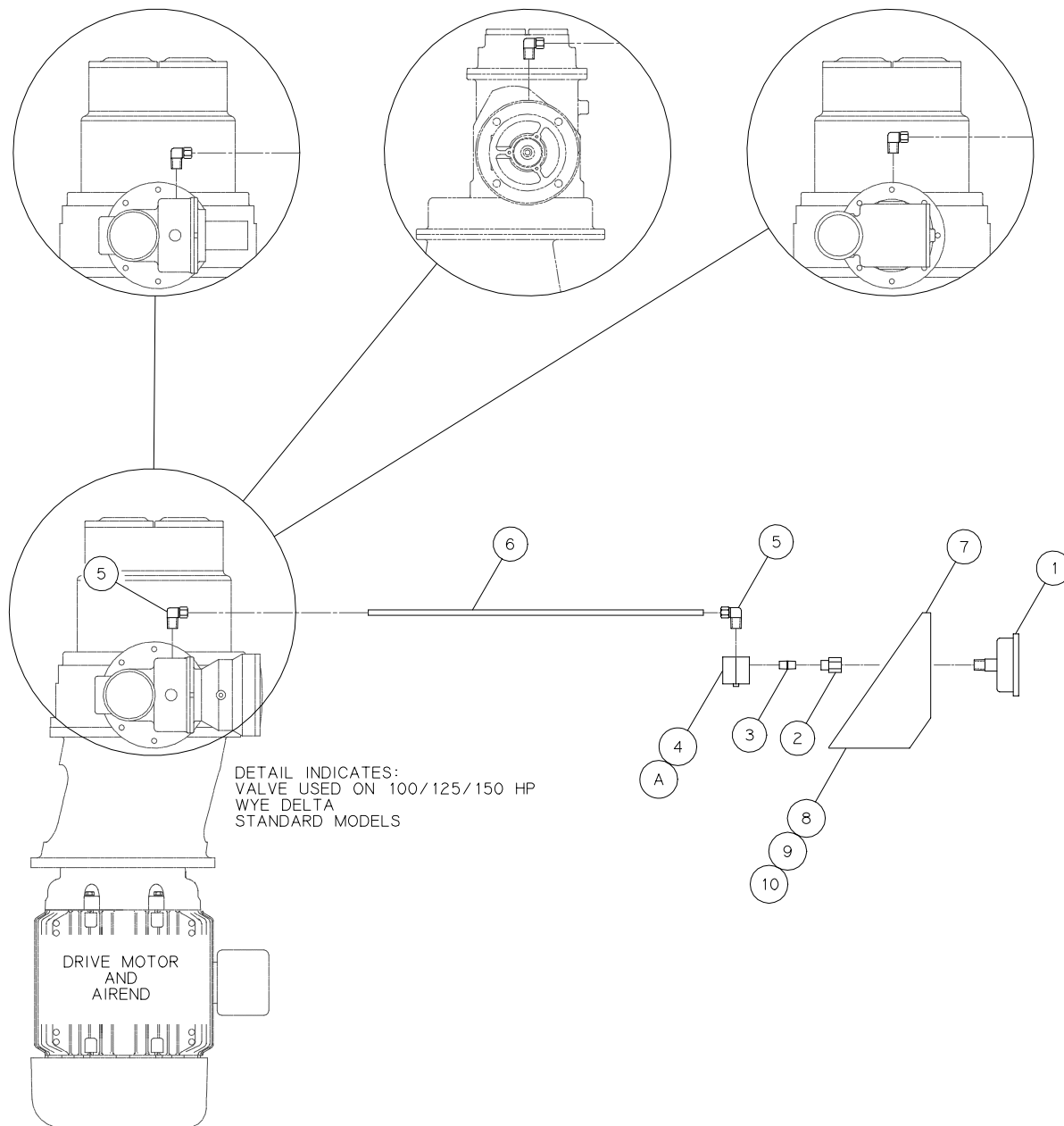
CONTROL PIPING GROUP *(standard, with modulation)*

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	128826	ASSEMBLY-BLOWDOWN VALVE
2	1	129732	FILTER-LINE, AUTOMATIC
3	1	21969-2	VALVE-DIFFERENTIAL PILOT
4	1	120496-5	VALVE-SOLENOID, 3-WAY
	1	120496-4	VALVE-SOLENOID, 3-WAY (HIGH PRESSURE OPTION)
5	25.5 FT	140620-003	TUBING-NYLON, 1/4 O.D.
6	1	121033-2	BUSHING-PIPE, BRASS, 0.38 NPT X 0.25 NPT
7	4	142125-1	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE
8	7	124349-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
9	3	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
10	2	90084	VALVE-SHUTTLE
11	1	121034-2	TEE-PIPE, BRASS, 0.25 NPT
12	1	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
13	2	111098-002	NIPPLE-BRASS, 0.12 NPT X 0.25 NPT X CLOSE
14	1	22455	CONNECTOR-ELECTRICAL, 1/2
15	1	8052	LOCKNUT-CONDUIT, 1/2
16	1	129203-003	COUPLING-BULKHEAD
17	1	6150	CROSS-PIPE, BRASS, 0.25 NPT
18	7.0 FT	140333	TUBE-STAINLESS STEEL, 0.25 O.D.
19	1	128885-003	FITTING-MALE CONNECTOR, 1/4 TUBE X 7/16-20, SAE O-RING
20	10.8 FT	140620-004	TUBING-NYLON, 3/8 O.D.
21	4	124393-005	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/4 NPT
22	1	126354-005	FITTING-FEMALE CONNECTOR, 1/4 TUBE X 1/4 NPT
23	1	129545	GAUGE-SIGHT FLOW
24	1	125025	ORIFICE-LINE FILTER (0.040)
25	1	110419-005	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/4 NPT
26	1	124349-012	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/2 NPT
27	1	142125-5	NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 2.38
28	1	143241	TEE-PIPE, BRASS, 0.12 NPT
29	1	128967-001	FITTING-ELBOW, 45° MALE, 1/4 TUBE X 1/8 NPT
30	4	121160	PLUG-PIPE, 1/8 NPT
31	1	124349-004	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
32	2	124393-012	FITTING-MALE CONNECTOR, 3/8 TUBE X 1/4 NPT
33	6	20222-01	TIE-CABLE, SELF LOCK, BLACK
34	2	7361	TEE-PIPE, BRASS, 0.25 NPT
35	2	124349-010	FITTING-ELBOW, 90° MALE, 3/8 TUBE X 1/4 NPT
36	3	124393-004	FITTING-MALE CONNECTOR, 1/4 TUBE X 1/8 NPT
37	2	124393-010	FITTING-MALE CONNECTOR, 3/8 TUBE X 1/8 NPT
38	1	140106-002	FITTING-ADAPTER, 3/4-16 X 1/4-8 NPTF, SAE O-RING
39	1	140106-001	FITTING-ADAPTER, 9/16-18 X 1/4-6 NPTF, SAE O-RING
40	1	142947	VALVE-ANGLE, NEEDLE
41	1	121034-1	TEE-PIPE, BRASS, 0.12 NPT
42	1	142125-13	NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE
43	1	124348-002	FITTING-TEE, MALE RUN, 1/4 TUBE X 1/8 NPT
COMPONENT MAINTENANCE PARTS			
A	1	129545-050	KIT-FLOW GAUGE <i>(includes sight glass, viton seals)</i>
B	1	140406-904	O-RING, VITON
C	1	20775	KIT-DIFFERENTIAL PILOT VALVE <i>(includes diaphragm, diaphragm gaskets, seat gasket, seat disk, seat ring)</i>
D	1	129732-050	KIT-LINE FILTER <i>(includes gasket, bowl seal, filter element)</i>
E	1	140406-908	O-RING, VITON
F	1	140406-906	O-RING, VITON

142295-3

DETAIL INDICATES:
VALVE USED ON 50/60 HP
ACROSS THE LINE
STOCK MODELS

DETAIL INDICATES:
VALVE USED ON 50/60 AND 75 HP
ACROSS THE LINE AND WYE DELTA
STANDARD MODELS
ALSO USED ON 75 HP
ACROSS THE LINE
STOCK MODELS



1) ITEMS 7 THRU 10 ARE USED ONLY ON UNITS LESS CABINET.

**GAUGE GROUPS (percent capacity)
(stock option)**

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		142295-003 (L/CABINET)	142295-005 (W/CABINET)	
1	1	128663	←	GAUGE-PERCENT CAPACITY
2	1	125260-001	←	REDUCER-PIPE, BRASS, 1/4 NPT X 1/8 NPT
3	1	142125-13	←	NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE
4	1	122056	←	VALVE-CHECK
5	2	124349-004	←	FITTING-ELBOW, 90° MALE, 1/4 TUBE X 1/8 NPT
6	5.0 FT	124435-003	←	TUBING-NYLON, 1/4 O.D.
7	1	143011	N/A	PANEL-GAUGE
8	4	124370-K02	N/A	LOCKNUT, 5/16-18 UNC
9	4	110428W025	N/A	WASHER-FLAT, 1/4
10	4	142578-K09	N/A	SCREW-CAP, ZINC, 5/16-18 UNC X 0.62, GRADE 5 (@ 13 FT-LBS)

COMPONENT MAINTENANCE PARTS

A	2	123157-008	←	O-RING
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@ indicates torque value in foot pounds. **(lubricated threads)**

32



RESERVOIR GROUP
142236-001

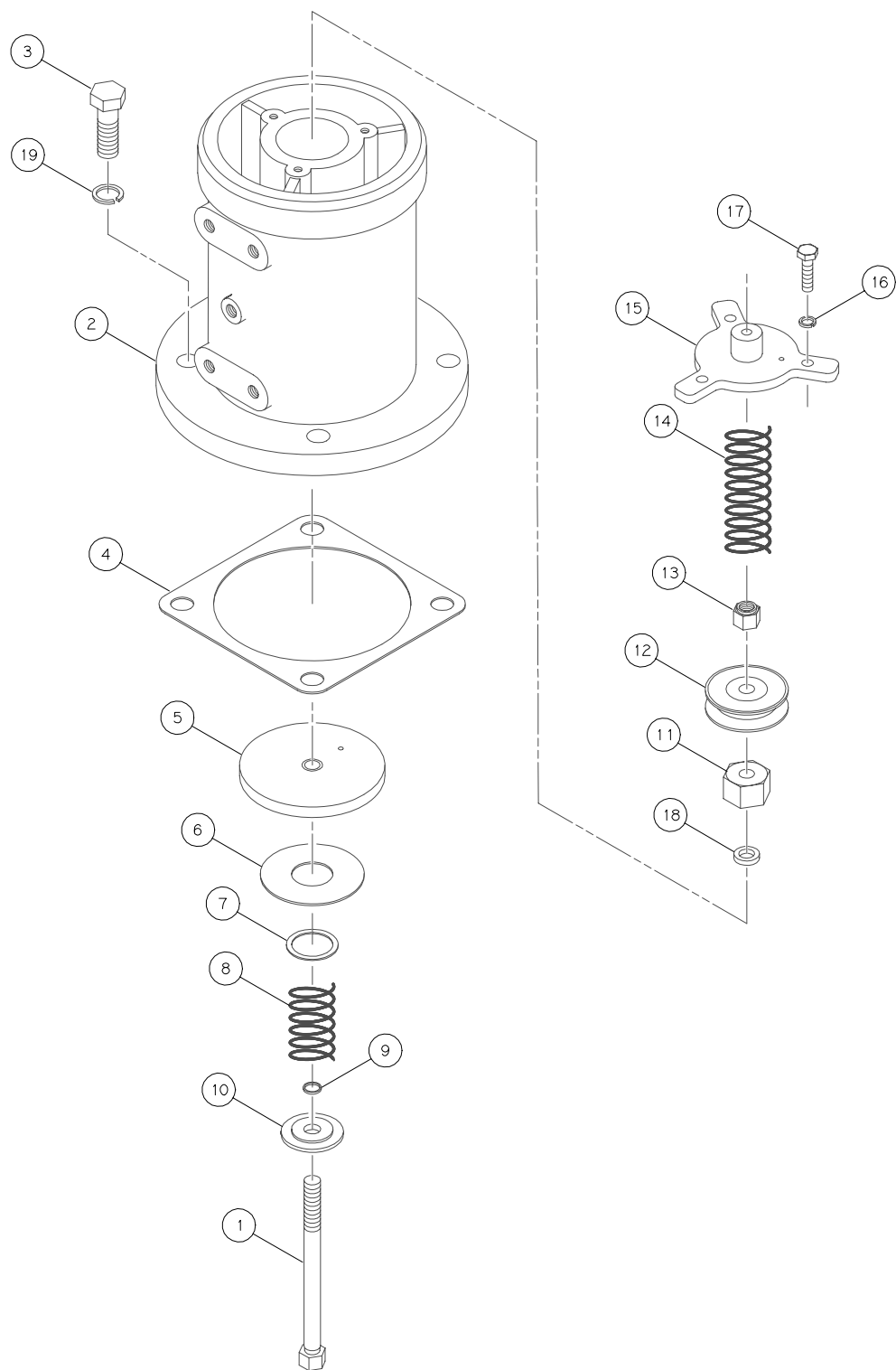
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	142563-175	RESERVOIR-AIR/FLUID
2	1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
3	1	141478-175	VALVE-PRESSURE RELIEF
4	1	129844-162	CAP-FILLER, SAE O-RING
5	1	129843-188	SIGHTGLASS, SAE O-RING
6	1	4729	PLUG-PIPE, 3/8 NPT
7	1	142299	FITTING-STRAIGHT, 1/4 TUBE X 1/4 NPT
8	3	124370-N02	LOCKNUT, 1/2-13 UNC
9	6	110428W050	WASHER-FLAT, 1/2
10	3	142578-N15	SCREW-CAP, ZINC, 1/2-13 UNC X 1.50, GRADE 5 (@ 23 FT-LBS)
11	3.0 FT	129164-500	TUBING-CLEAR VINYL, 1/2 I.D.
12	1	140323-8	TUBE-SEPARATOR DRAIN
13	1	143355-003	FITTING-ELBOW, 1/2 TUBE X 3/4-16, SAE O-RING
14	1	129730-050	VALVE-QUARTER TURN, SAE O-RING
15	1	140106-003	FITTING-ADAPTER, 3/4-16 X 3/8-8 NPTF, SAE O-RING
16	2	128968-010	FITTING-HOSE, BARBED, 1/2 HOSE X 3/8 NPT
17	2	128176-015	CLAMP-HOSE
18	1	128193-2	LABEL-FLUID DRAIN
19	1	129203-004	COUPLING-BULKHEAD

COMPONENT MAINTENANCE PARTS

A	8	123478-N16	SCREW-HEX, 1/2-13 UNC X 1.75 GRADE 5 (@ 55 FT-LBS)
B	8	123115-08C	LOCKWASHER, 1/2
C	1	140406-920	O-RING, VITON
D	1	140406-924	O-RING, VITON
E	3	140406-908	O-RING, VITON

@ indicates torque value in foot pounds. (lubricated threads)

INLET VALVE GROUP (stock)
143146

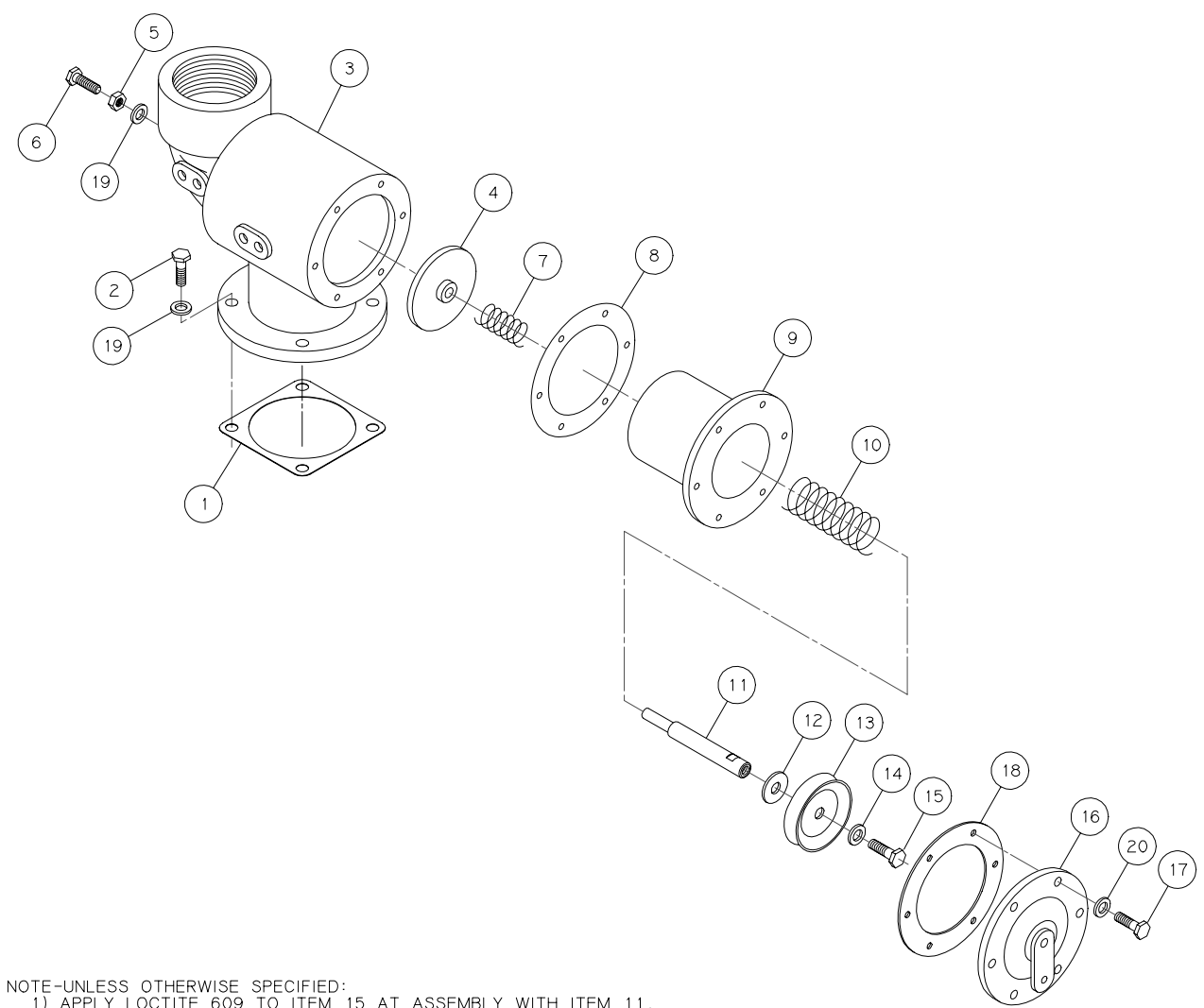


INLET VALVE GROUP (stock)
143146

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	127202	SHAFT-INLET VALVE
2	1	143127	ASSEMBLY-HOUSING, INLET VALVE
3	4	142578-N15	SCREW-CAP, ZINC, 1/2-13 UNC X 1.50, GRADE 5 (@ 23 FT-LBS)
4	1	141608	GASKET-INLET VALVE
5	1	143128	ASSEMBLY-PLATE, INLET VALVE
6	1	125912	DISC-VALVE, BYPASS
7	1	2134	GASKET-VALVE
8	1	123092	SPRING
9	1	123157-012	O-RING
10	1	127203	RETAINER-PLATE, VALVE
11	1	127201	SPACER-INLET VALVE
12	1	126460-200	CUP-PISTON
13	1	124370-L02	LOCKNUT-3/8-16 UNC
14	1	126461	SPRING-INLET VALVE
15	1	126358	CAP-INLET VALVE CYLINDER
16	3	123115-04Z	LOCKWASHER-ZINC, 1/4
17	3	123478-J09	SCREW-CAP, 1/4-20 UNC X 0.62, GRADE 5 (@ 6 FT-LBS)
18	1	126796	SEAL-SHAFT, INLET VALVE
19	4	123115-08Z	LOCKWASHER-ZINC, 1/2

@ indicates torque value in foot pounds. (lubricated threads)

INLET VALVE GROUP (standard)
126650



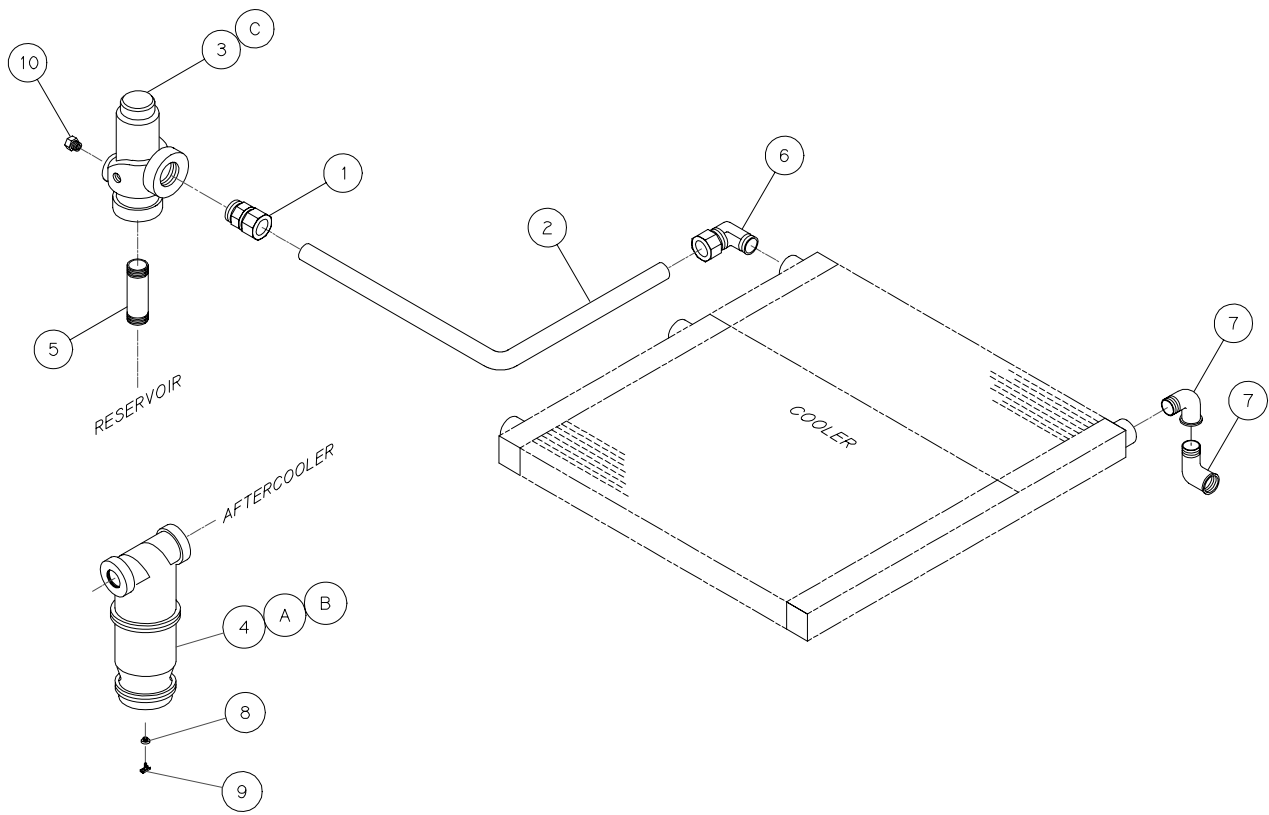
NOTE-UNLESS OTHERWISE SPECIFIED:
1) APPLY LOCTITE 609 TO ITEM 15 AT ASSEMBLY WITH ITEM 11.

INLET VALVE GROUP *(standard)* 126650

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	141608	GASKET-INLET VALVE
2	4	142578-N15	SCREW-CAP, ZINC, 1/2-13 UNC X 1.50, GRADE 5 (@ 23 FT-LBS)
3	1	126646	HOUSING-INLET VALVE
4	1	122995	ASSEMBLY-INLET VALVE PLATE
5	1	124368-N02	JAMNUT-1/2-13 UNC
6	1	128720-001	SCREW-HEX, 1/2-13 UNC X 5.00
7	1	123092	SPRING
8	1	123549-003	GASKET
9	1	126644	CYLINDER-INLET VALVE
10	1	126649	SPRING-INLET VALVE
11	1	126648	SHAFT-INLET VALVE
12	1	126647	FLATWASHER, 1/2, SPECIAL
13	1	126460-350	CUP-PISTON
14	1	1478-1	FLATWASHER-SPECIAL
15	1	123478-N12	SCREW-HEX, 1/2-13 UNC X 1.00, GRADE 5 (@ 55 FT-LBS)
16	1	126645	PLATE-COVER
17	6	123478-L15	SCREW-HEX, 3/8-16 UNC X 1.50, GRADE 5 (@ 30 FT-LBS)
18	1	141258	GASKET-INLET VALVE
19	5	123115-08C	LOCKWASHER, 1/2
20	6	123115-06C	LOCKWASHER, 3/8

@ indicates torque value in foot pounds. (lubricated threads)

AIR PIPING GROUP (*air-cooled*)
142191-001

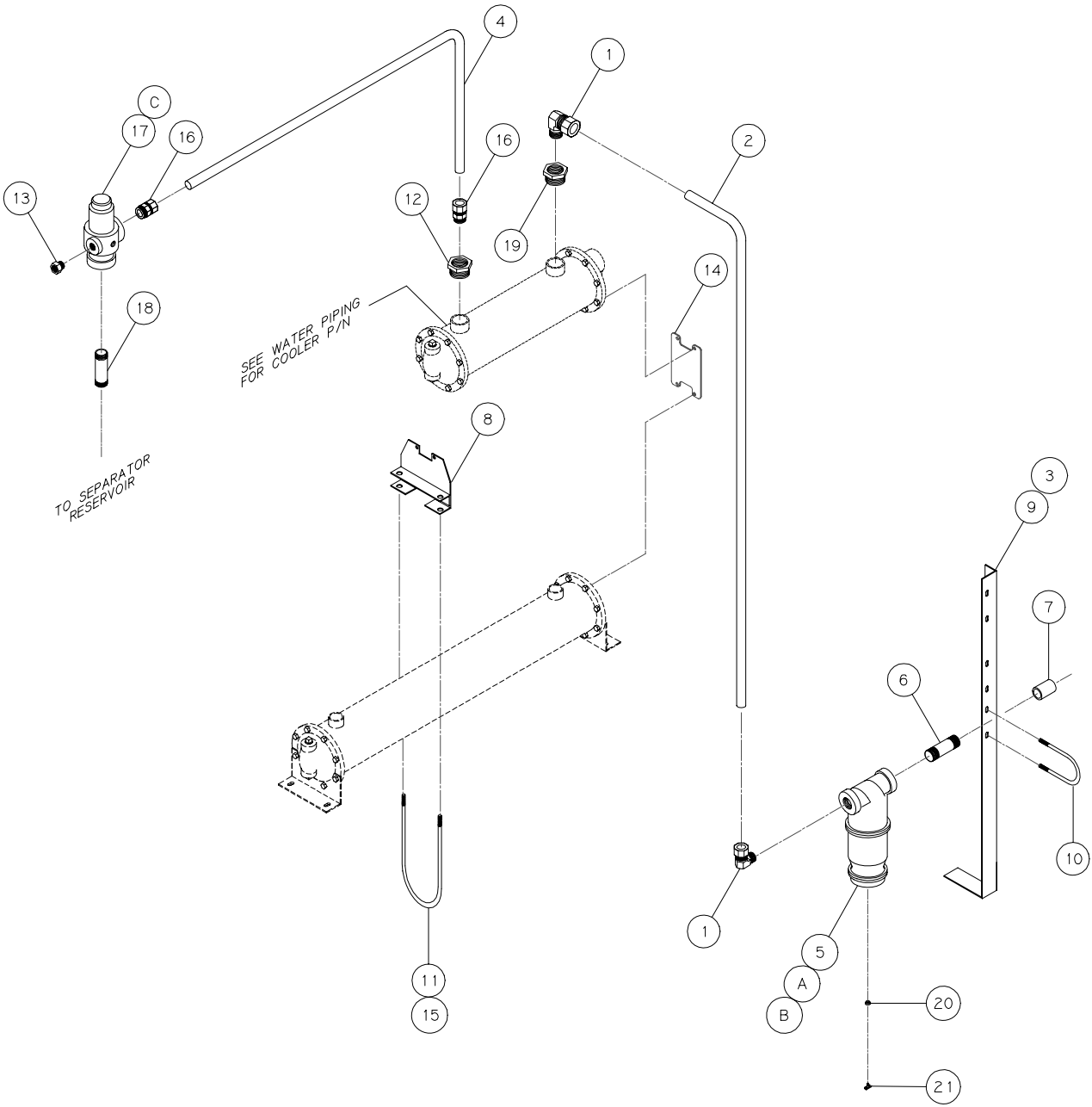


NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEMS 4, 8 AND 9 ARE SHIPPED LOOSE.

AIR PIPING GROUP (*air-cooled*)
142191-001

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	23240	FITTING-MALE CONNECTOR, 1-1/2 TUBE X 1-1/2 NPT
2	1	142411-002	TUBE-FORMED, 1-1/2 O.D.
3	1	128691-001	VALVE-CHECK, MINIMUM PRESSURE
4	1	124827-125	SEPARATOR-MOISTURE
5	1	142478-034	NIPPLE-PIPE, 1-1/2 NPT X 5.00, STAINLESS STEEL
6	1	110419-023	FITTING-ELBOW, 90° MALE, 1-1/2 TUBE X 1-1/2 NPT
7	2	120308	ELBOW-PIPE, 1-1/4 NPT
8	1	3535	BUSHING-PIPE, 3/8 NPT X 1/4 NPT
9	1	2713	DRAINCOCK-1/4 NPT
10	1	142939	BUSHING-PIPE, 1/2 NPT X 3/4 NPT
<u>COMPONENT MAINTENANCE PARTS</u>			
A	1	124827-052	KIT-REPAIR (<i>includes item B</i>)
B	1	124827-051	GASKET-TRAP
C	1	128691-051	KIT-MINIMUM PRESSURE CHECK VALVE

AIR PIPING GROUP (water-cooled)
142191-002



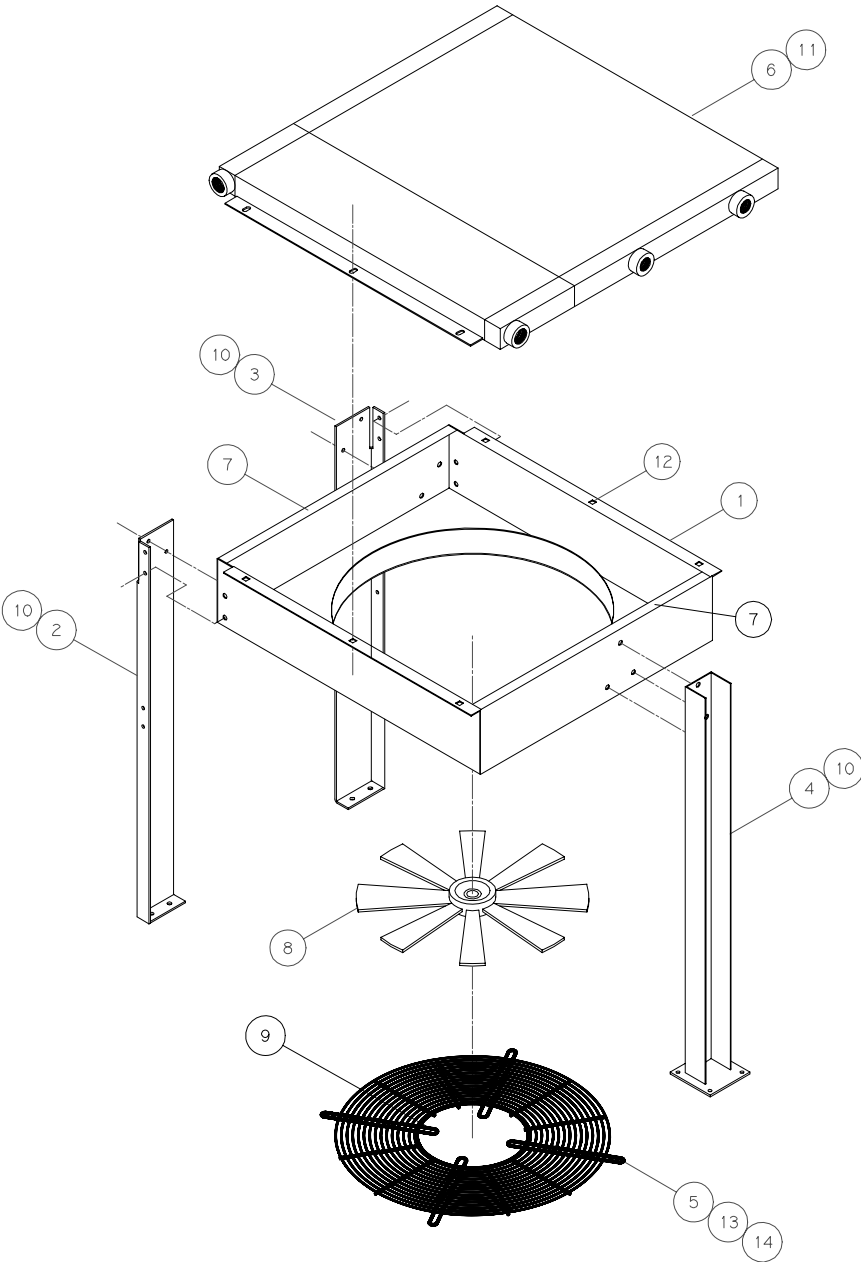
AIR PIPING GROUP (water-cooled)
142191-002

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	2	110419-022	FITTING-ELBOW, 90° MALE, 1.25 TUBE X 1.25 NPT
2	1	142410-003	TUBE-FORMED, STEEL, 1.25 O.D.
3	2	110511-K10	SCREW-TAP, ZINC, 5/16-18 UNC X 0.75
4	1	142411-001	TUBE-FORMED, STEEL, 1.50 O.D.
5	1	124827-125	SEPARATOR-MOISTURE
6	1	126021-026	NIPPLE-PIPE, GALVANIZED, 1.25 NPT X 4.00
7	1	124874-001	COUPLING-PIPE, 1.25 NPT
8	1	142150-1	BRACKET-COOLER SUPPORT
9	1	142150-3	BRACKET-COOLER SUPPORT
10	1	6306	U-BOLT, 1/4-18 UNC
11	1	23731	U-BOLT, 1/2-13 UNC
12	1	125868-027	BUSHING-PIPE, 2.00 NPT X 1.50 NPT
13	1	142939	BUSHING-PIPE, BRASS, 0.50 NPT X 0.75 NPT
14	1	142744	BRACKET-COOLER SUPPORT
15	2	124370-N02	LOCKNUT, 1/2-13 UNC
16	2	23240	FITTING-MALE CONNECTOR, 1.50 TUBE X 1.50 NPT
17	1	128691-001	VALVE-CHECK, MINIMUM PRESSURE
18	1	142478-042	NIPPLE-PIPE, STAINLESS STEEL, 1.50 NPT X 6.00
19	1	125868-028	BUSHING-PIPE, 2.00 NPT X 1.25 NPT
20	1	3535	BUSHING-PIPE, 0.38 NPT X 0.25 NPT
21	1	2713	DRAINCOCK-1/4 NPT

COMPONENT MAINTENANCE PARTS

A	1	124827-052	KIT-REPAIR <i>(includes item B)</i>
B	1	124827-051	GASKET-TRAP
C	1	128691-051	KIT-MINIMUM PRESSURE CHECK VALVE

COOLER GROUPS *(air-cooled)*

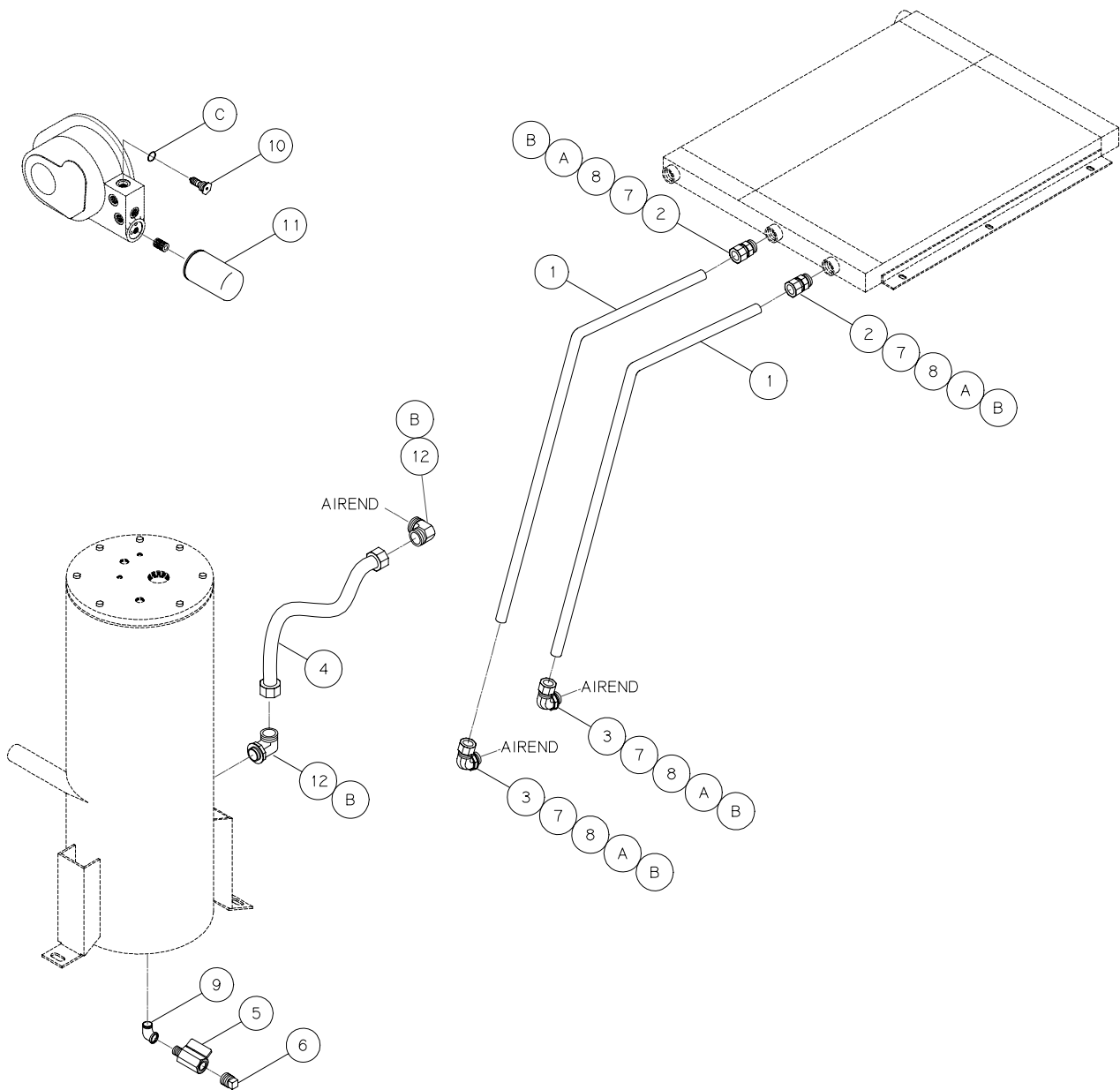


COOLER GROUPS *(air-cooled)*

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		142190-001	142190-003	
		142190-002	142190-004	
		(50 HP)	(60 HP)	
1	1	142239-3	142239-2	SHROUD-COOLER
2	1	142564-1	←	BRACKET-SUPPORT, RIGHT SIDE
3	1	142564-2	←	BRACKET-SUPPORT, LEFT SIDE
4	1	142560-01	←	BRACKET-SUPPORT
5	1	141994-6	141994-5	GUARD-FAN
6	1	141993	141993-2	COOLER-COMBINATION AIR/FLUID
7	5.0 FT	141528	←	SEAL-RUBBER
8	1	126511-003	126511-042	FAN (60Hz)
	1	126511-044	126511-043	FAN (50Hz)
9	4	141631-L10	N/A	SCREW-CAP, 3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)
	4	N/A	141631-N12	SCREW-CAP, 1/2-20 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)
10	19	110511-K10	←	SCREW-TAPTITE, 5/16-18 UNC X 0.75
11	6	141631-K10	←	SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)
12	6	8452	←	NUT-SPEED, 5/16-18 UNC
13	4	110511-K12	←	SCREW-TAPTITE, 5/16-18 UNC X 1.00
14	4	112272-K02	←	NUT-HEX, SELF LOCKING, 5/16-18 UNC

@ indicates torque value in foot pounds. (lubricated threads)

FLUID PIPING GROUP (air-cooled)
142198-001



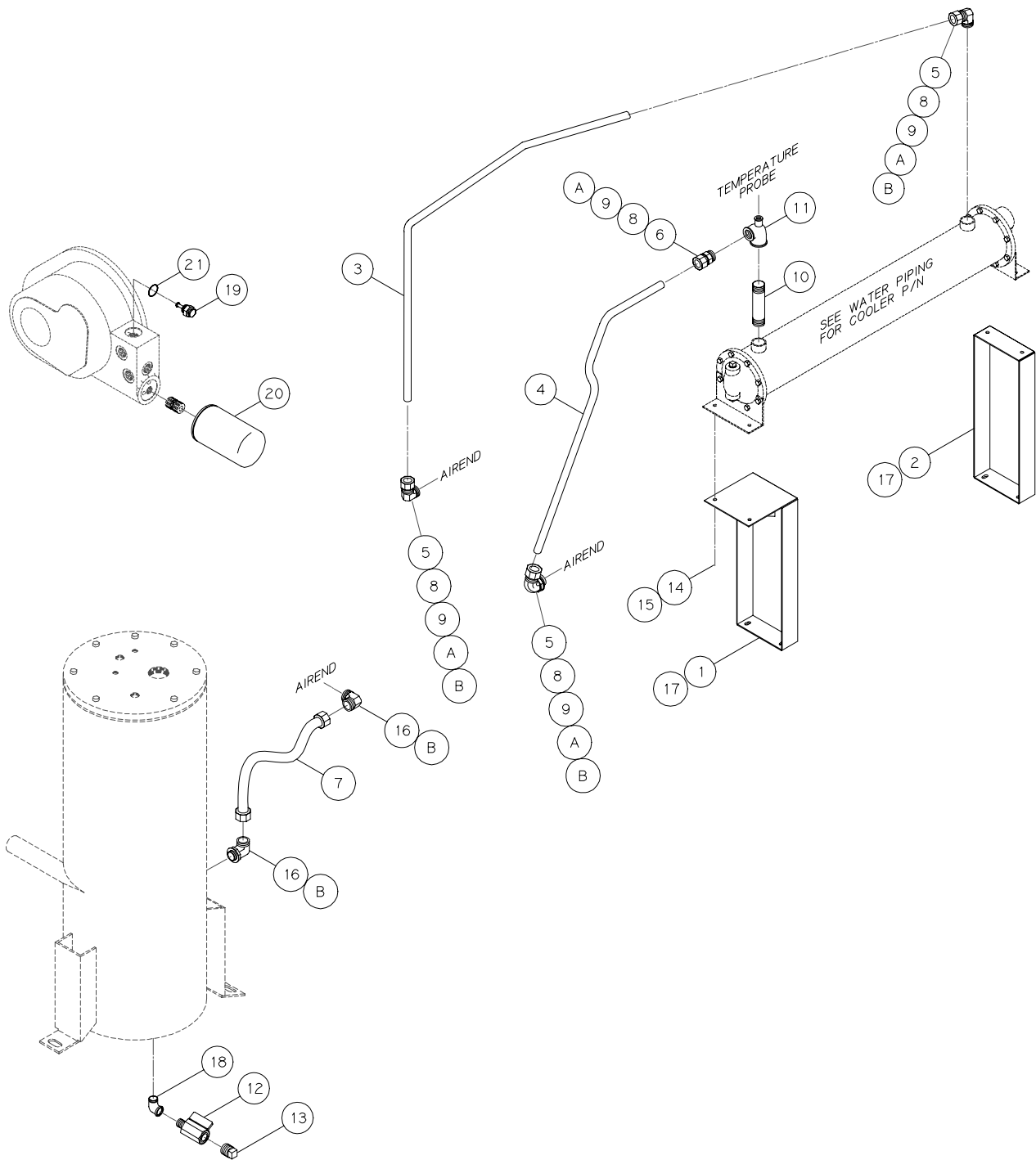
FLUID PIPING GROUP (*air-cooled*)
142198-001

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	2	142407-001	TUBE-FORMED, 3/4 O.D.
2	2	140682-016	FITTING-UNION, 3/4 TUBE X 1-1/16-12, SAE O-RING
3	2	140676-014	FITTING-ELBOW, 3/4 TUBE X 1-1/16-12, SAE O-RING
4	1	141951-011	HOSE-ASSEMBLY, 1.00
5	1	129251-025	VALVE-PLUG
6	1	124335-006	PLUG-PIPE, 1/4 NPT, GALVANIZED
7	4	140679-005	FITTING-NUT, 3/4 O.D. TUBE
8	4	140680-005	FITTING-SLEEVE, 3/4 O.D. TUBE
9	1	123651-003	ELBOW-PIPE, 1/4 NPT, GALVANIZED
10	1	140147-1	VALVE-THERMAL, CARTRIDGE
11	1	128381-050	ELEMENT-FLUID FILTER
12	2	129010-018	FITTING-ELBOW, 1-1/16 NPT X 1-5/16-12, SAE O-RING

COMPONENT MAINTENANCE PARTS

A	4	140675-005	O-RING, FACE SEAL
B	6	140406-912	O-RING
C	1	22749-123	O-RING

FLUID PIPING GROUP (water-cooled)
142198-002



FLUID PIPING GROUP (water-cooled)
142198-002

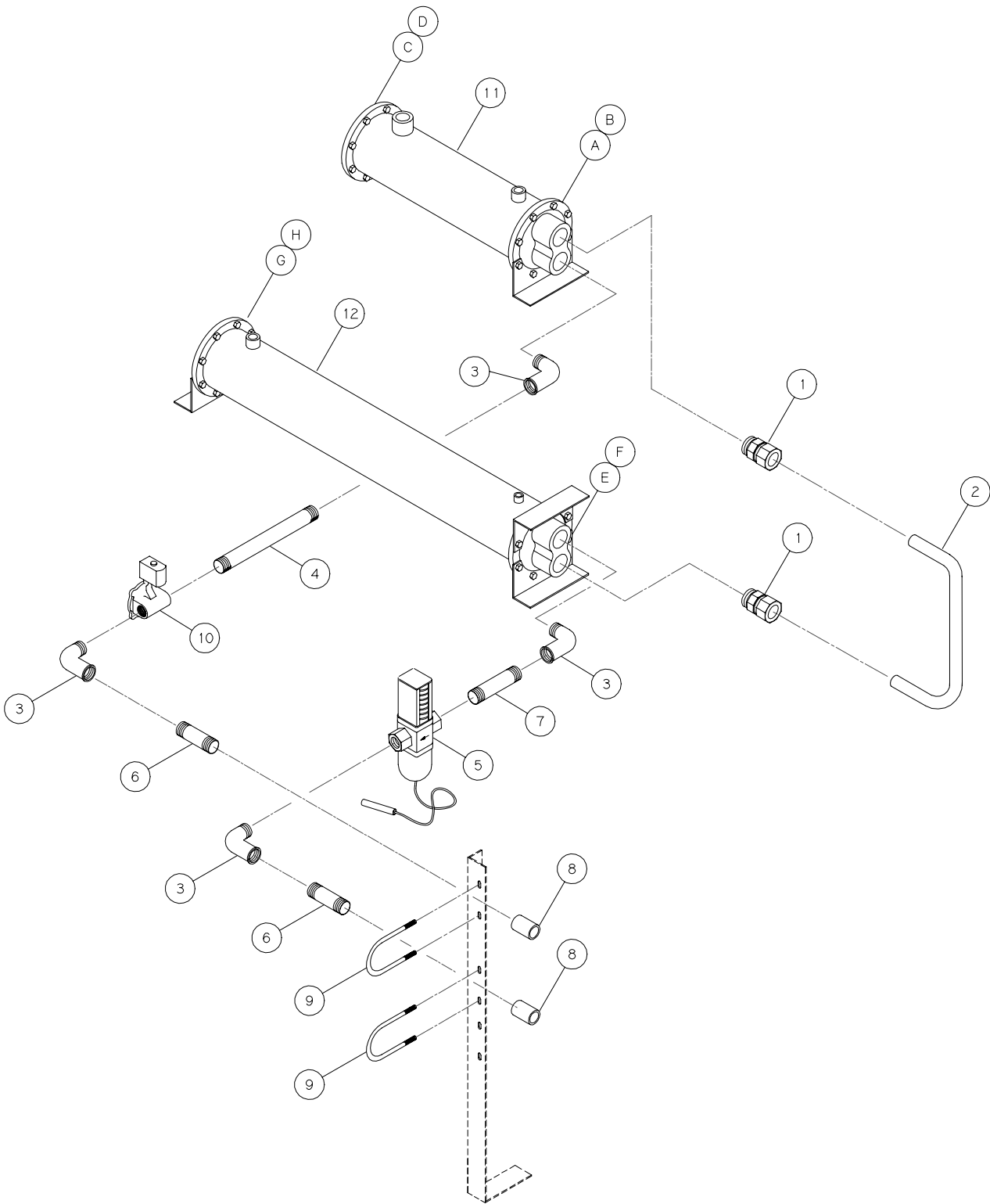
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	142150-4	BRACKET-COOLER SUPPORT
2	1	142150-2	BRACKET-COOLER SUPPORT
3	1	142151-2	TUBE-FORMED, 3/4 O.D., STAINLESS STEEL
4	1	142151-1	TUBE-FORMED, 3/4 O.D., STAINLESS STEEL
5	3	140676-014	FITTING-ELBOW, 3/4 TUBE X 1-1/16-12, SAE O-RING
6	1	140681-014	FITTING-UNION, 3/4 TUBE X 1 NPTF
7	1	141951-011	HOSE-1.00 O.D.
8	4	140679-005	FITTING-NUT, 3/4 O.D. TUBE
9	4	140680-005	FITTING-SLEEVE, 3/4 O.D. TUBE
10	1	126021-026	NIPPLE-PIPE, 1-1/4 NPT X 4.00
11	1	124421-046	TEE-PIPE, 1-1/4 NPT X 1/2 NPT X 1.00 NPT
12	1	129251-025	VALVE-PLUG
13	1	124335-006	PLUG-PIPE, 1/4 NPT, BRASS
14	4	141631-K10	SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)
15	4	112272-K02	NUT-HEX, SELF LOCKING, 5/16-18 UNC
16	2	129010-018	FITTING-ELBOW, 1-1/16 NPT X 1-5/16-12, SAE O-RING
17	4	110511-K10	SCREW-TAPTITE, 5/16-18 UNC X 0.75
18	1	123651-003	ELBOW-PIPE, 1/4 NPT, GALVANIZED
19	1	140649	PLUG-THERMAL VALVE
20	1	128381-050	ELEMENT-FLUID FILTER
21	1	140406-916	O-RING, VITON

COMPONENT MAINTENANCE PARTS

A	4	140675-005	O-RING, FACE SEAL
B	5	140406-912	O-RING

@ indicates torque value in foot pounds. (*lubricated threads*)

WATER PIPING GROUP (fresh water)
142220-001



WATER PIPING GROUP (fresh water)
142220-001

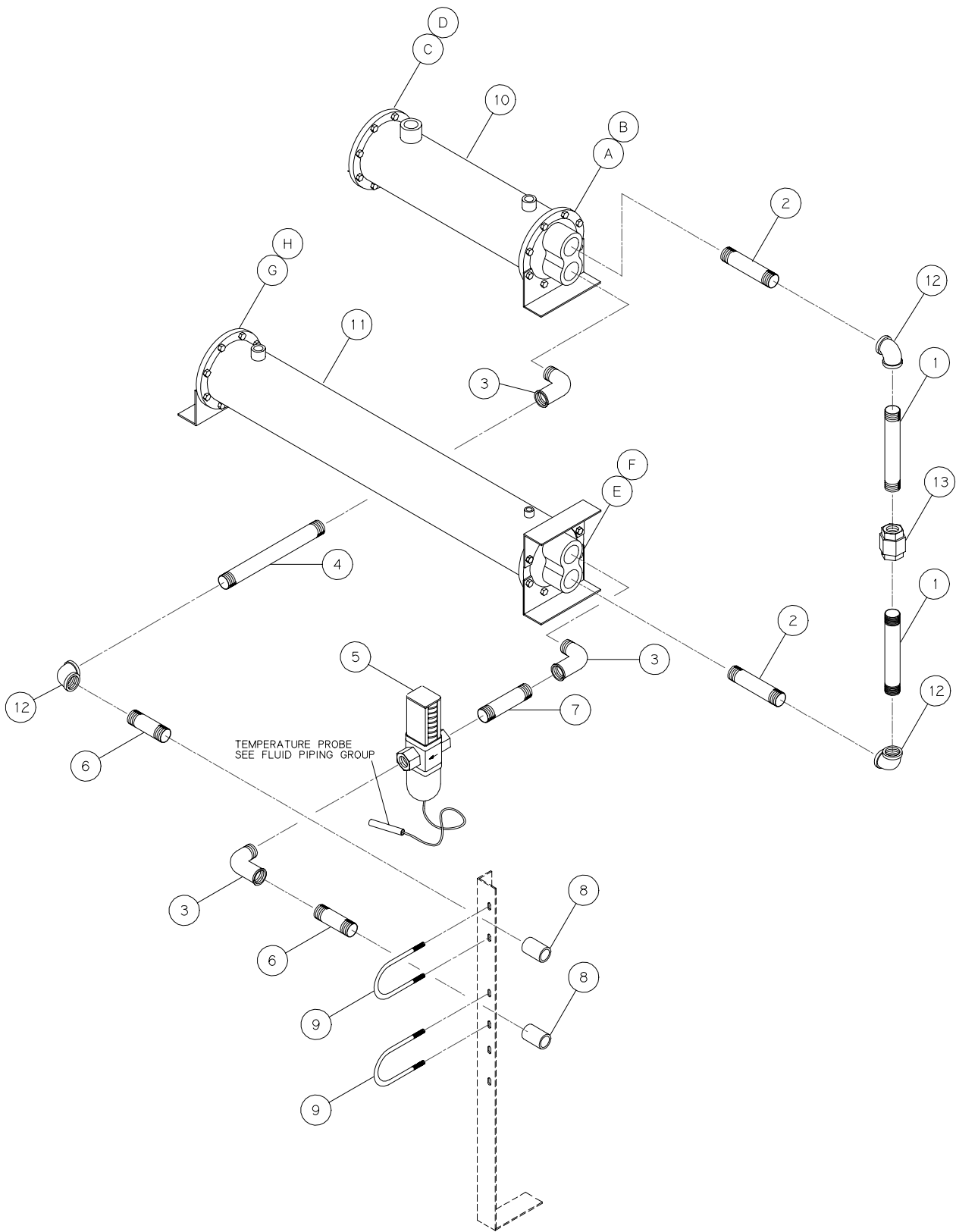
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	2	23358	FITTING-STRAIGHT, 1.00 TUBE X 1.00 NPT
2	1	142549-001	TUBE-FORMED, 1.00 O.D.
3	4	21730	ELBOW-PIPE, 1.00 NPT
4	1	126020-030	NIPPLE-PIPE, 1.00 NPT X 4.50
5	1	23219-1	VALVE-WATER REGULATING
6	2	126020-018	NIPPLE-PIPE, 1.00 NPT X 3.00
7	1	126020-022	NIPPLE-PIPE, 1.00 NPT X 3.50
8	2	21740	COUPLING-PIPE, 1.00 NPT
9	2	120317	U-BOLT, 5/16-18 UNC
10	1	22431	VALVE-SOLENOID, 2 WAY
11	1	22709-18	HEAT EXCHANGER-AFTERCOOLER
12	1	22708-27	HEAT EXCHANGER-FLUID COOLER

COMPONENT MAINTENANCE PARTS

A	1	22709-725	BONNET-COOLER, IN/OUT END
B	1	22709-727	GASKET-COOLER, IN/OUT END
C	1	22709-726	BONNET-COOLER, RETURN END
D	1	22709-728	GASKET-COOLER, RETURN END
E	1	22708-725	BONNET-COOLER, IN/OUT END
F	1	22708-727	GASKET-COOLER, IN/OUT END
G	1	22708-726	BONNET-COOLER, RETURN END
H	1	22708-728	GASKET-COOLER, RETURN END

@ indicates torque value in foot pounds. (lubricated threads)

WATER PIPING GROUP (sea water)
142220-002



WATER PIPING GROUP (sea water)
142220-002

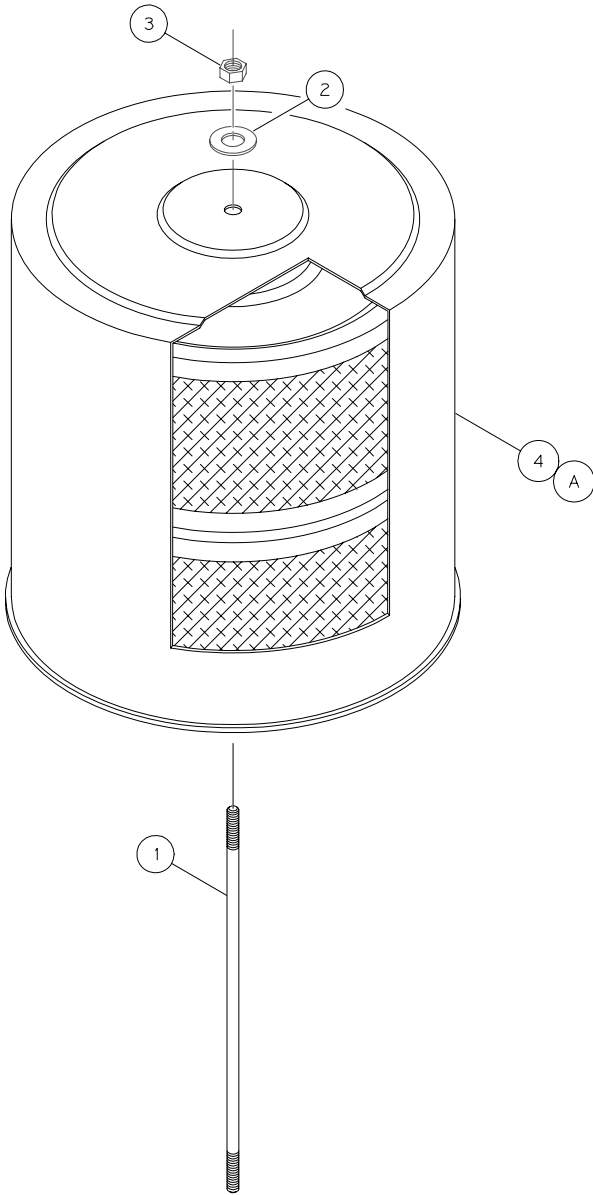
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	2	126020-34B	NIPPLE-PIPE, 1.00 NPT X 5.00, BRASS
2	2	126020-26B	NIPPLE-PIPE, 1.00 NPT X 4.00, BRASS
3	3	142310-06	ELBOW-PIPE, 1.00 NPT
4	1	141650-062	NIPPLE-PIPE, 1.00 NPT X 8.50, BRASS
5	1	23219-6	VALVE-WATER REGULATING
6	2	141650-018	NIPPLE-PIPE, 1.00 NPT X 3.00, BRASS
7	1	126020-22B	NIPPLE-PIPE, 1.00 NPT X 3.50, BRASS
8	2	142309-06	COUPLING-PIPE, 1.00 NPT
9	2	120317	U-BOLT, 5/16-18 UNC
10	1	124061-009	HEAT EXCHANGER-AFTERCOOLER
11	1	124060-014	HEAT EXCHANGER-FLUID COOLER
12	3	141829-006	ELBOW-PIPE, 1.00 NPT, BRASS
13	1	142311-07	UNION-PIPE, 1.00 NPT

COMPONENT MAINTENANCE PARTS

A	1	124061-225	BONNET-COOLER, IN/OUT END
B	1	124061-227	GASKET-COOLER, IN/OUT END
C	1	124061-226	BONNET-COOLER, RETURN END
D	1	124061-228	GASKET-COOLER, RETURN END
E	1	124060-225	BONNET-COOLER, IN/OUT END
F	1	124060-227	GASKET-COOLER, IN/OUT END
G	1	124060-226	BONNET-COOLER, RETURN END
H	1	124060-228	GASKET-COOLER, RETURN END

@ indicates torque value in foot pounds. (*lubricated threads*)

AIR FILTER GROUPS (*stock*)

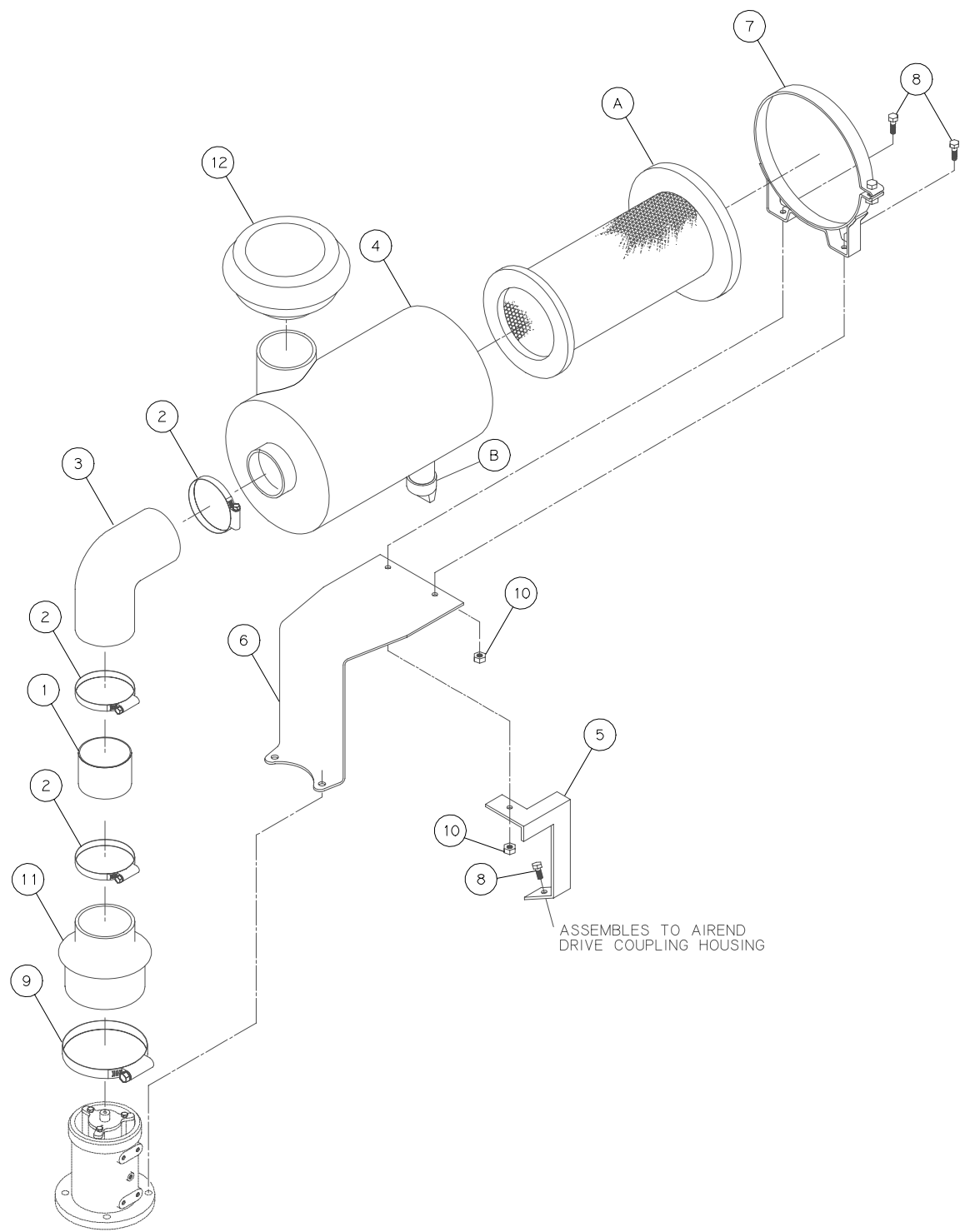


AIR FILTER GROUPS *(stock)*

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		126679 (50 HP)	143145-001 (60 HP)	
1	1	126462	126462-003	STUD-AIR FILTER
2	1	110428N025	←	WASHER-FLAT, 1/4
3	1	124370-J02	←	NUT-LOCK, 1/4-20 UNC
4	1	12467H450	143151H450	FILTER-AIR
<u>COMPONENT MAINTENANCE PARTS</u>				
A	1*	126467E450	←	ELEMENT-AIR FILTER

* Quantity of 2 required on 60 HP.

AIR FILTER GROUPS *(heavy duty, stock option)*



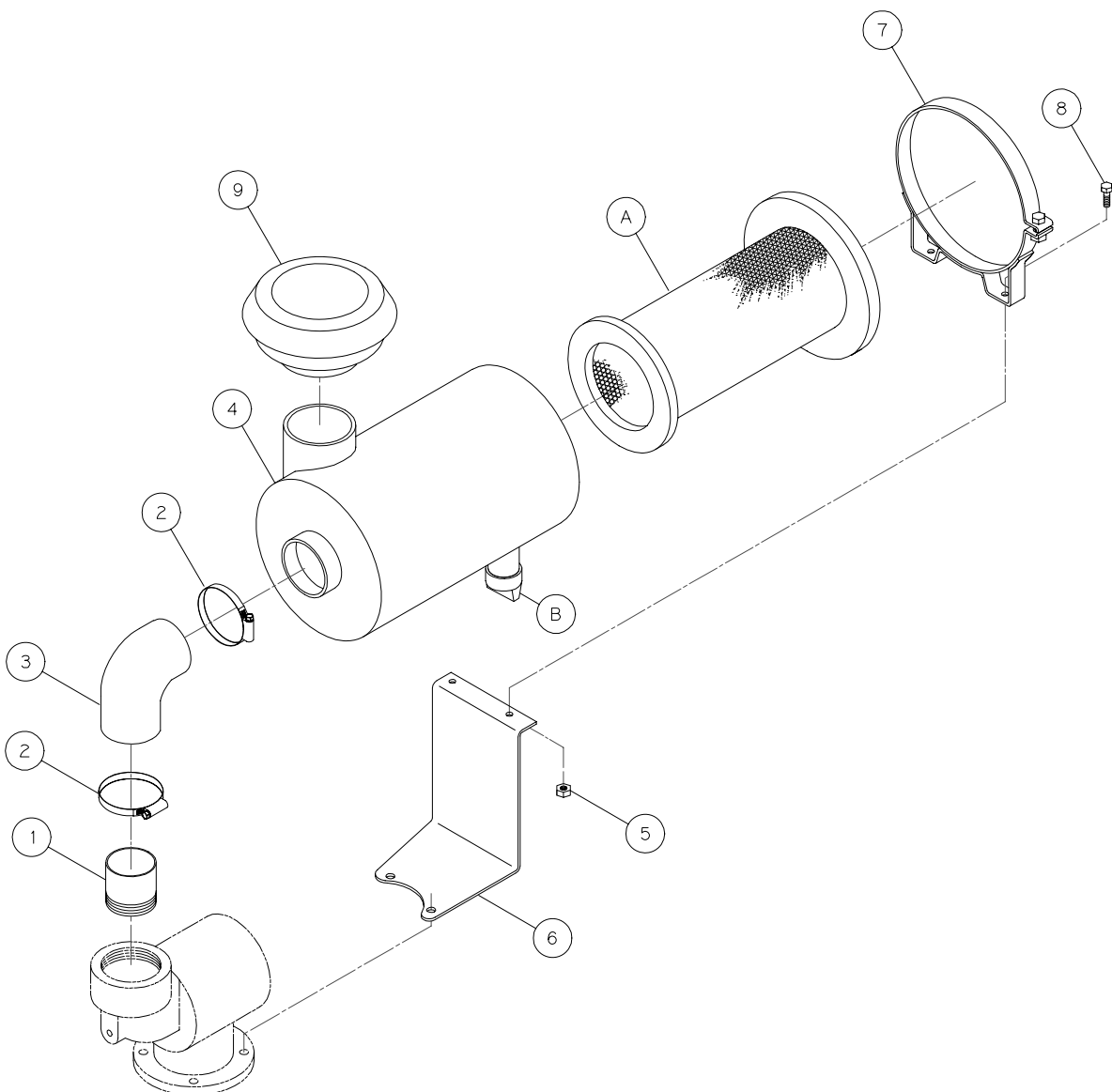
NOTES-UNLESS OTHERWISE SPECIFIED:
1) UNITS WITH CABINET DO NOT USE ITEM 12.

AIR FILTER GROUPS *(heavy duty, stock option)*

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		143145-002 (L/CABINET)	143145-003 (W/CABINET)	
1	1	143156-001	←	SPACER-PIPE, 3-1/2 NPT X 2.50
2	3	110423-072	←	CLAMP-HOSE
3	1	20418	←	ELBOW-RUBBER
4	1	22864-4	←	FILTER-AIR
5	1	143363	←	BRACKET-AIR FILTER
6	1	143148	←	BRACKET-AIR FILTER
7	1	120045	←	BAND-AIR FILTER
8	3	142578-L12	←	SCREW-CAP, ZINC, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)
9	1	110423-096	←	CLAMP-HOSE
10	2	124370-L02	←	LOCKNUT, 3/8-16 UNC
11	1	20417	←	REDUCER-RUBBER
12	1	20187	N/A	HOOD-AIR FILTER
<u>COMPONENT MAINTENANCE PARTS</u>				
A	1	23458-4	←	ELEMENT-AIR FILTER
B	1	121291	←	COVER-DUST

@ indicates torque value in foot pounds. (lubricated threads)

AIR FILTER GROUP *(heavy duty, standard)*



NOTES-UNLESS OTHERWISE SPECIFIED:
1) UNITS WITH CABINET DO NOT USE ITEM 9.

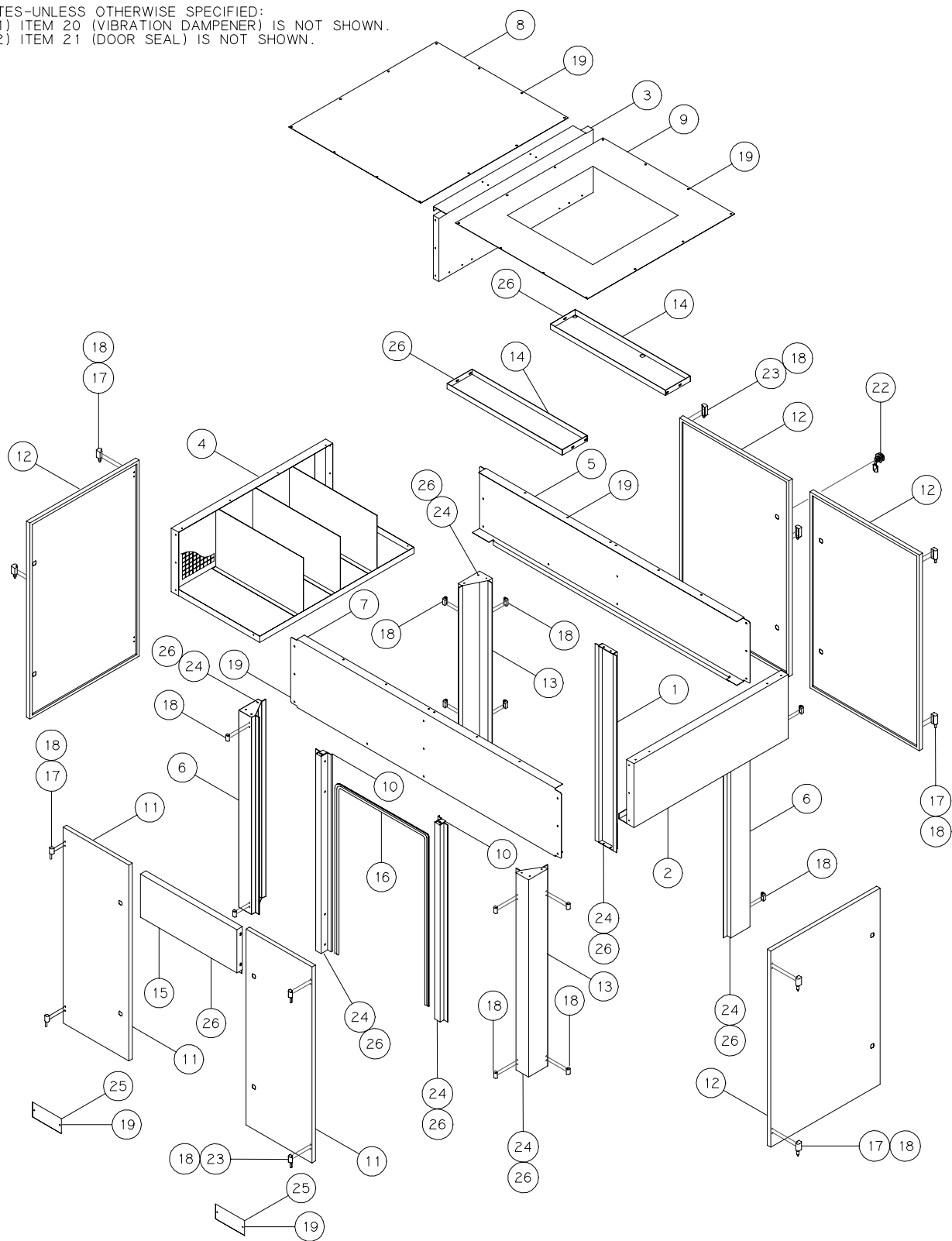
AIR FILTER GROUP *(heavy duty, standard)*

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		142271-001 (W/CABINET)	142271-002 (L/CABINET)	
1	1	126039-017	←	NIPPLE-PIPE, 3-1/2 NPT X 3.00
2	2	110423-072	←	CLAMP-HOSE
3	1	20418	←	ELBOW-RUBBER
4	1	22864-4	←	FILTER-AIR
5	2	124370-L02	←	LOCKNUT-3/8-16 UNC
6	1	142280	←	BRACKET-AIR FILTER
7	1	120045	←	BAND-AIR FILTER
8	2	142578-L12	←	SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)
9	1	N/A	20187	HOOD-AIR FILTER
<u>COMPONENT MAINTENANCE PARTS</u>				
A	1	23458-4	←	ELEMENT-AIR FILTER
B	1	121291	←	COVER-DUST

@ indicates torque value in foot pounds. (lubricated threads)

CABINET GROUP *(air-cooled, 50HP)*

NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEM 20 (VIBRATION DAMPENER) IS NOT SHOWN.
2) ITEM 21 (DOOR SEAL) IS NOT SHOWN.



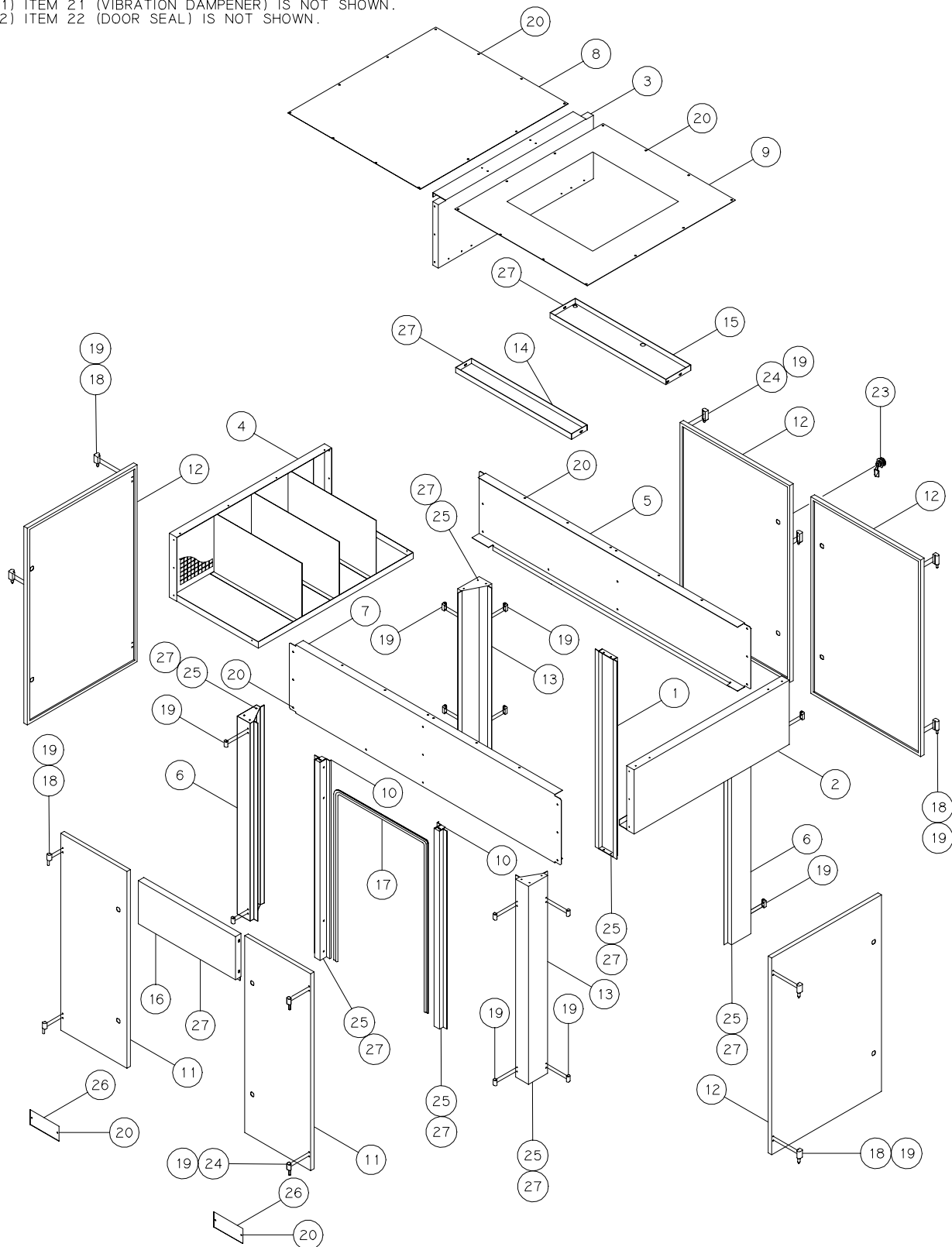
CABINET GROUP *(air-cooled, 50HP)*

ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		143457-001 (L/GAUGE)	143457-002 (W/GAUGE)	
1	1	142067-10	←	PANEL-DOOR
2	1	142067-11	←	PANEL-END
3	1	142067-12	←	PANEL-CENTER DIVIDER
4	1	142067-13	←	PANEL-INLET
5	1	142067-14	←	PANEL-SIDE, REAR
6	2	142067-25	←	PANEL-CORNER POST
7	1	142067-26	←	PANEL-SIDE, FRONT
8	1	142067-18	←	PANEL-TOP
9	1	142067-19	←	PANEL-EXHAUST
10	2	142067-21	←	PANEL-DOOR POST, FRONT
11	2	142067-22	←	PANEL-DOOR
12	4	142067-23	←	PANEL-DOOR
13	2	142067-24	←	PANEL-CORNER POST
14	2	142067-16	←	PANEL-COOLER, BAFFLE
15	1	142067-20	N/A	PANEL-BLANK
	1	N/A	142067-28	PANEL-GAUGE
16	8.3 FT	141527-1	←	TRIM-PANEL
17	8	141526-1	←	HINGE-CABINET
18	48	142578-J07	←	SCREW-CAP, ZINC, 1/4-20 UNC X 0.50, GRADE 5 (@ 6 FT-LBS)
19	52	141575-J07	←	SCREW-PAN HEAD, 1/4-20 UNC X 0.50
20	0.6 FT	20579	←	DAMPENER-VIBRATION
21	58.8 FT	141528	←	SEAL-RUBBER
22	12	128954-2	←	LATCH-DOOR, QUARTER TURN
23	4	141526-2	←	HINGE-CABINET
24	16	110511-K10	←	SCREW-TAP, ZINC, 5/16-18 UNC X 0.75
25	4	141991-1	←	COVER-BASE
26	28	110511-J07	←	SCREW-TAP, ZINC, 1/4-20 UNC X 0.50

@ indicates torque value in foot pounds. (lubricated threads)

CABINET GROUP (air-cooled, 60HP)

NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEM 21 (VIBRATION DAMPENER) IS NOT SHOWN.
2) ITEM 22 (DOOR SEAL) IS NOT SHOWN.



CABINET GROUP *(air-cooled, 60HP)*

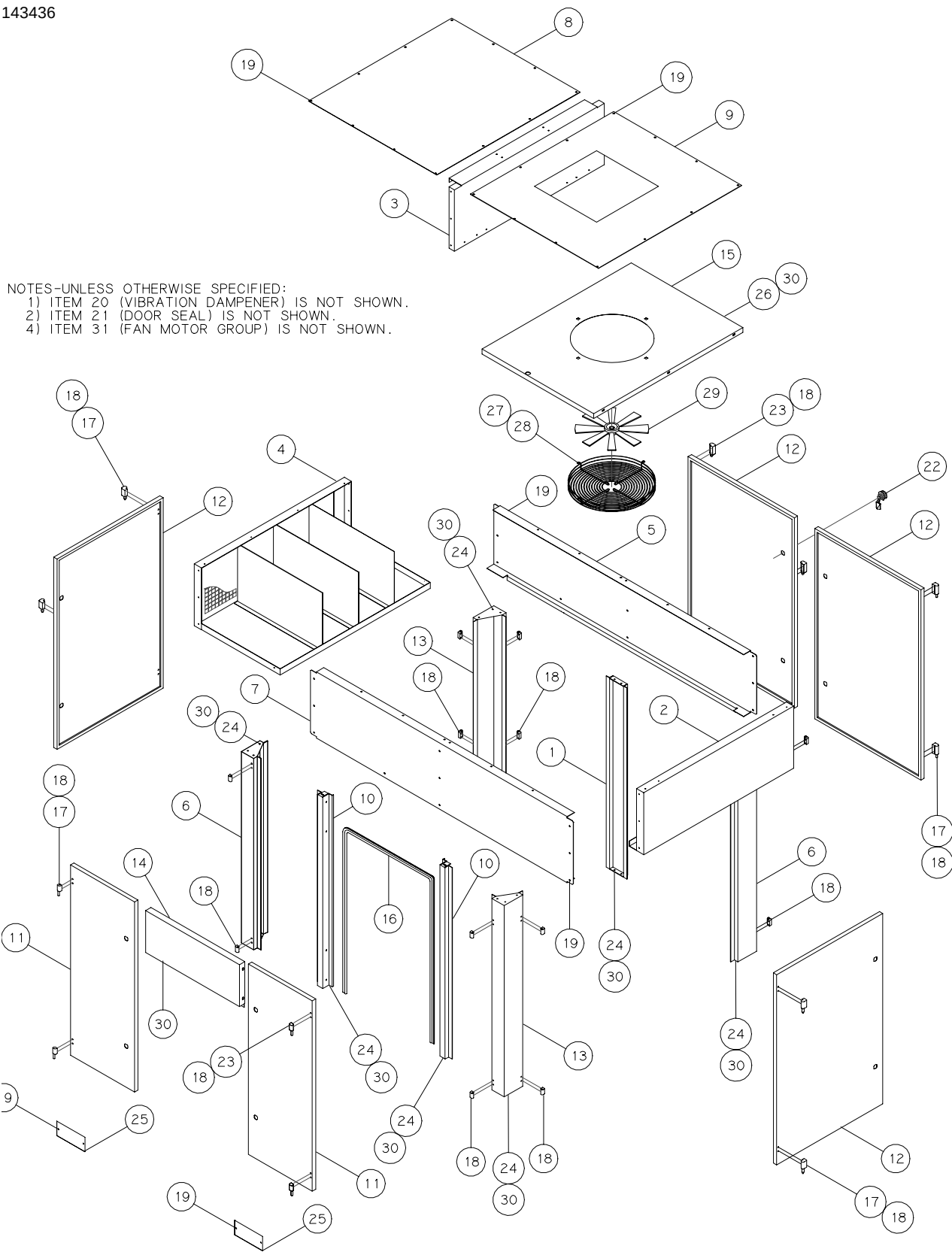
ITEM NUMBER	QTY.	PART NUMBER	PART NUMBER	DESCRIPTION
		143458-001 (L/GAUGE)	143458-002 (W/GAUGE)	
1	1	142067-10	←	PANEL-DOOR
2	1	142067-11	←	PANEL-END
3	1	142067-12	←	PANEL-CENTER DIVIDER
4	1	142067-13	←	PANEL-INLET
5	1	142067-14	←	PANEL-SIDE, REAR
6	2	142067-25	←	PANEL-CORNER POST
7	1	142067-26	←	PANEL-SIDE, FRONT
8	1	142067-18	←	PANEL-TOP
9	1	142067-19	←	PANEL-EXHAUST
10	2	142067-21	←	PANEL-DOOR POST, FRONT
11	2	142067-22	←	PANEL-DOOR
12	4	142067-23	←	PANEL-DOOR
13	2	142067-24	←	PANEL-CORNER POST
14	1	142067-15	←	PANEL-COOLER, BAFFLE
15	1	142067-16	←	PANEL-COOLER, BAFFLE
16	1	142067-20	N/A	PANEL-BLANK
	1	N/A	142067-28	PANEL-GAUGE
17	8.3 FT	141527-1	←	TRIM-PANEL
18	8	141526-1	←	HINGE-CABINET
19	48	142578-J07	←	SCREW-CAP, ZINC, 1/4-20 UNC X 0.50, GRADE 5 (@ 6 FT-LBS)
20	52	141575-J07	←	SCREW-PAN HEAD, 1/4-20 UNC X 0.50
21	0.6 FT	20579	←	DAMPENER-VIBRATION
22	58.8 FT	141528	←	SEAL-RUBBER
23	12	128954-2	←	LATCH-DOOR, QUARTER TURN
24	4	141526-2	←	HINGE-CABINET
25	16	110511-K10	←	SCREW-TAP, ZINC, 5/16-18 UNC X 0.75
26	4	141991-1	←	COVER-BASE
27	26	110511-J07	←	SCREW-TAP, ZINC, 1/4-20 UNC X 0.50

@ indicates torque value in foot pounds. (lubricated threads)

CABINET GROUP (water-cooled)

143436

NOTES-UNLESS OTHERWISE SPECIFIED:
1) ITEM 20 (VIBRATION DAMPENER) IS NOT SHOWN.
2) ITEM 21 (DOOR SEAL) IS NOT SHOWN.
4) ITEM 31 (FAN MOTOR GROUP) IS NOT SHOWN.



CABINET GROUP *(water-cooled)*

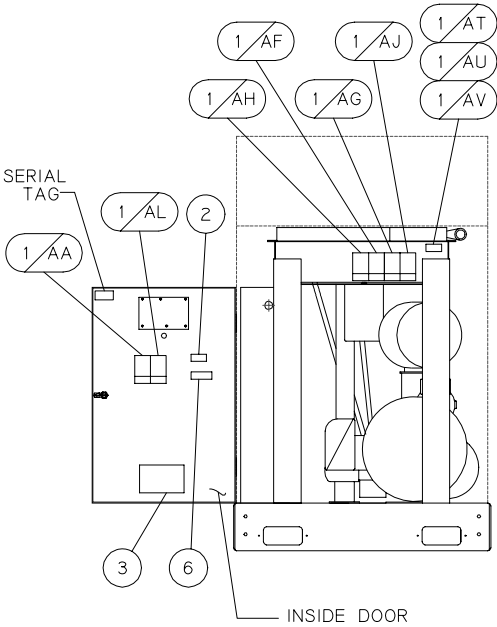
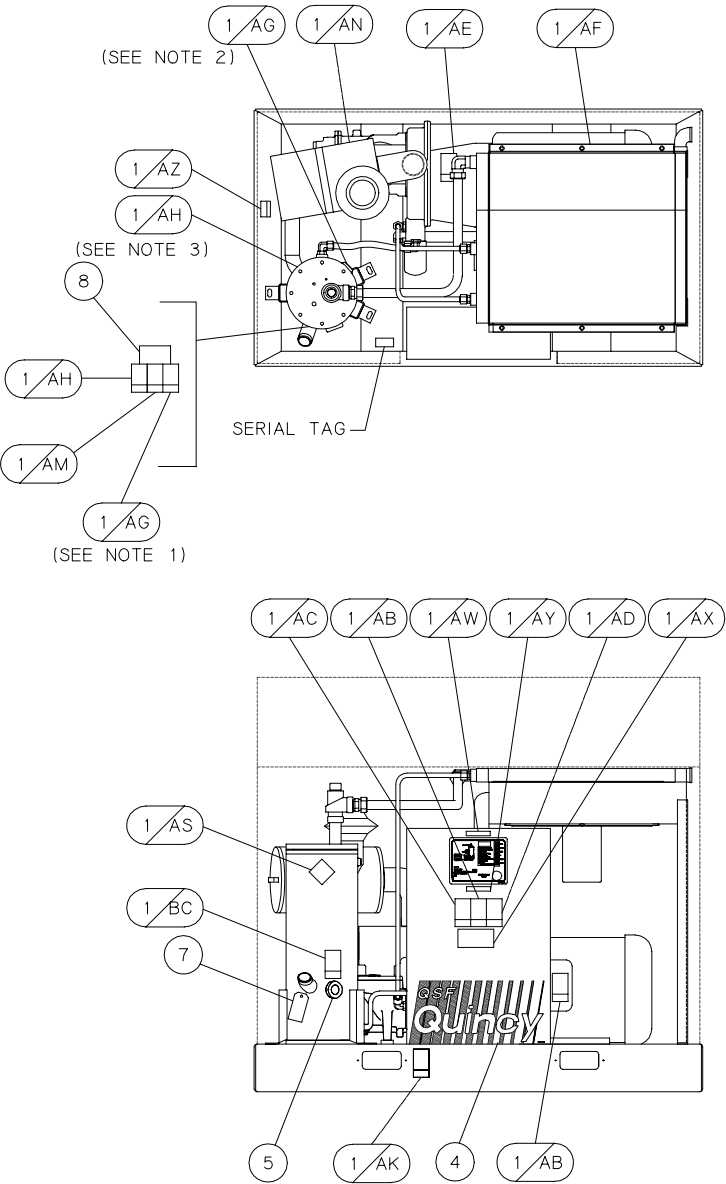
ITEM NUMBER	QTY.	PART NUMBER (L/GAUGE)	PART NUMBER (W/GAUGE)	DESCRIPTION
1	1	142067-10	←	PANEL-DOOR
2	1	142067-11	←	PANEL-END
3	1	142067-12	←	PANEL-CENTER DIVIDER
4	1	142067-13	←	PANEL-INLET
5	1	142067-14	←	PANEL-SIDE, REAR
6	2	142067-25	←	PANEL-CORNER POST
7	1	142067-26	←	PANEL-SIDE, FRONT
8	1	142067-18	←	PANEL-TOP
9	1	142067-19	←	PANEL-EXHAUST
10	2	142067-21	←	PANEL-DOOR POST, FRONT
11	2	142067-22	←	PANEL-DOOR
12	4	142067-23	←	PANEL-DOOR
13	2	142067-24	←	PANEL-CORNER POST
14	1	142067-20	N/A	PANEL-BLANK
	1	N/A	142067-28	PANEL-GAUGE
15	1	142067-27	←	PANEL-FAN
16	8.3 FT	141527-1	←	TRIM-PANEL
17	8	141526-1	←	HINGE-CABINET
18	48	142578-J07	←	SCREW-CAP, ZINC, 1/4-20 UNC X 0.50, GRADE 5 (@ 6 FT-LBS)
19	52	141575-J07	←	SCREW-PAN HEAD, 1/4-20 UNC X 0.50
20	0.6 FT	20579	←	DAMPENER-VIBRATION
21	58.8 FT	141528	←	SEAL-RUBBER
22	12	128954-2	←	LATCH-DOOR, QUARTER TURN
23	4	141526-2	←	HINGE-CABINET
24	16	110511-K10	←	SCREW-TAP, ZINC, 5/16-18 UNC X 0.75
25	4	141991-1	←	COVER-BASE
26	4	8452	←	NUT-SPEED, 5/16-18 UNC
27	4	141631-K10	←	SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)
28	1	141223	←	GUARD-FAN
29	1	126511-034	←	FAN-8 BLADE, 16.0 O.D.
30	26	110511-J07	←	SCREW-TAP, ZINC, 1/4-20 UNC X 0.50
31	1	*	←	ASSEMBLY-STARTER, VENT FAN

* Part numbers listed in tabulation below.

@ indicates torque value in foot pounds. (lubricated threads)

ITEM 31		VENT FAN STARTER ASSEMBLY	
	OPD	TEFC	
200V	142342C001	142342C007	
230V	142342C002	142342C008	
380V	142342C005	142342C011	
415V	142342C006	142342C012	
460V	142342C003	142342C009	
575V	142342C004	142342C010	

DECAL GROUP (air-cooled)



- NOTES-UNLESS OTHERWISE SPECIFIED:
1) THESE ITEMS ARE TO BE PLACED ABOVE FILL PORT.
2) THIS ITEM TO BE PLACED BELOW PRESSURE RELIEF VALVE.
3) THIS ITEM TO BE PLACED ABOVE RESERVOIR INLET PIPE.

DECAL GROUP *(air-cooled)*

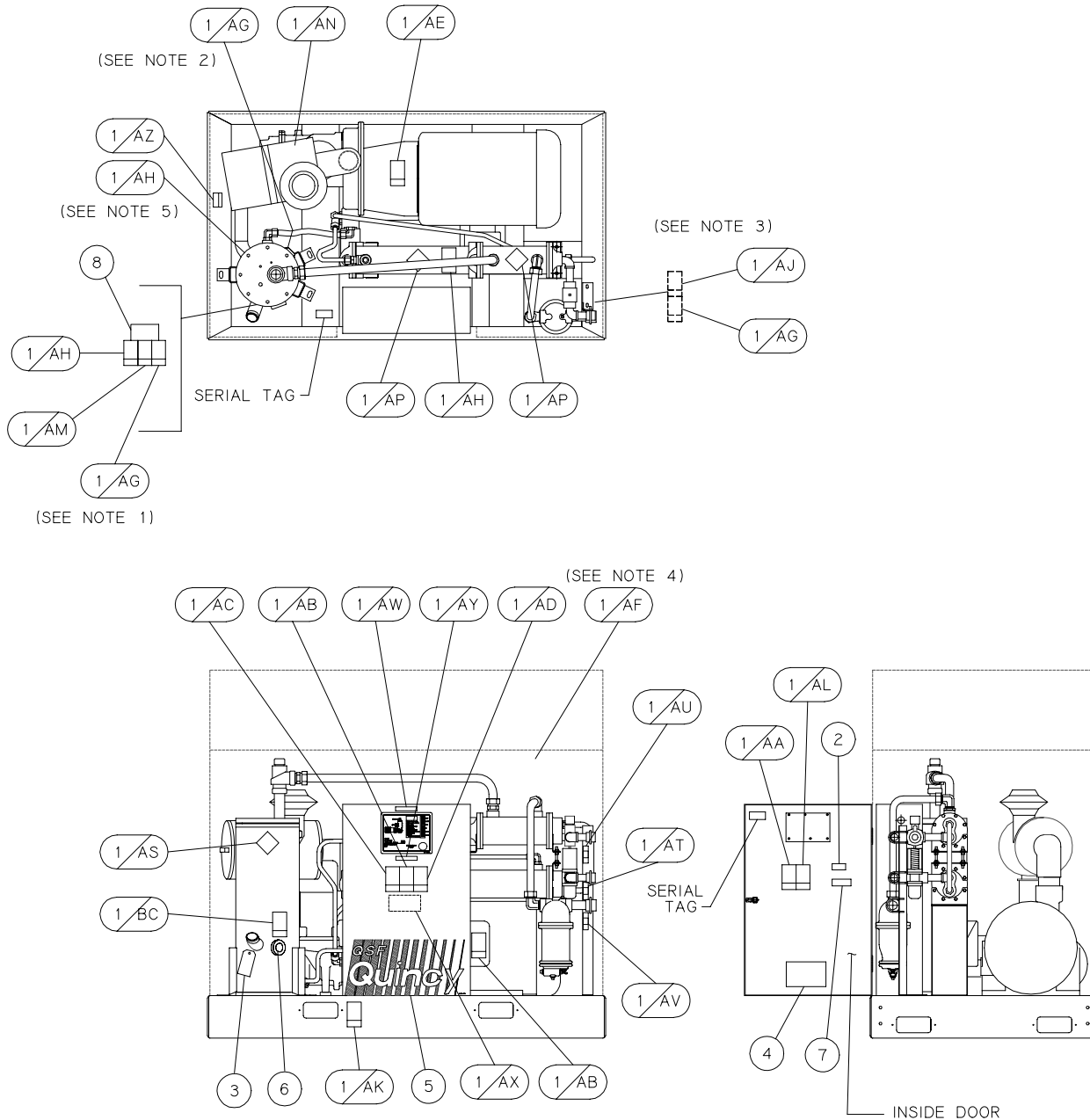
ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	143194	SHEET-SAFETY DECALS
2	1	128198	LABEL-GENUINE QUINCY COMPONENTS
3	1	110690-001	ENVELOPE-PLASTIC
4	1	142247-50A*	DECAL-QSF 50, 100 PSI
	1	142247-50B*	DECAL-QSF 50, 125 PSI
	1	142247-50C*	DECAL-QSF 50, 150 PSI
	1	142247-60A*	DECAL-QSF 60, 100 PSI
	1	142247-60B*	DECAL-QSF 60, 125 PSI
	1	142247-60C*	DECAL-QSF 60, 150 PSI
5	1	142325	DECAL-FLUID LEVEL
6	1	110835	DECAL-CONTROL PANEL
7	1	22177	TAG-FLUID TYPE SHIPPED WITH UNIT
8**	1	128425	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN
	1	128426	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN-F
	1	142210	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN IV

NOTES:

* DASH NUMBER CHANGES ACCORDING TO HORSEPOWER (HP) AND PRESSURE (PSI) OF UNIT.

** USE APPROPRIATE DECAL FOR FLUID TYPE USED.

DECAL GROUP *(water-cooled)*



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) THESE ITEMS ARE TO BE PLACED ABOVE FILL PORT.
- 2) THIS ITEM TO BE PLACED BELOW PRESSURE RELIEF VALVE.
- 3) THESE ITEMS TO BE PLACED BELOW SERVICE CONNECTIONS.
- 4) THIS ITEM TO BE PLACED ON FAN MOTOR (UNITS WITH CABINETS).
- 5) THIS ITEM TO BE PLACED ABOVE RESERVOIR INLET PIPE.

DECAL GROUP *(water-cooled)*

ITEM NUMBER	QTY.	PART NUMBER	DESCRIPTION
1	1	143194	SHEET-SAFETY DECALS
2	1	128198	LABEL-GENUINE QUINCY COMPONENTS
3	1	22177	TAG-FLUID TYPE SHIPPED WITH UNIT
4	1	110690-001	ENVELOPE-PLASTIC
5	1	142247-50A*	DECAL-QSF 50, 100 PSI
	1	142247-50B*	DECAL-QSF 50, 125 PSI
	1	142247-50C*	DECAL-QSF 50, 150 PSI
	1	142247-60A*	DECAL-QSF 60, 100 PSI
	1	142247-60B*	DECAL-QSF 60, 125 PSI
	1	142247-60C*	DECAL-QSF 60, 150 PSI
6	1	142325	DECAL-FLUID LEVEL
7	1	110835	DECAL-CONTROL PANEL
8**	1	128425	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN
	1	128426	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN-F
	1	142210	DECAL-THIS MACHINE IS PROTECTED WITH QUINSYN IV

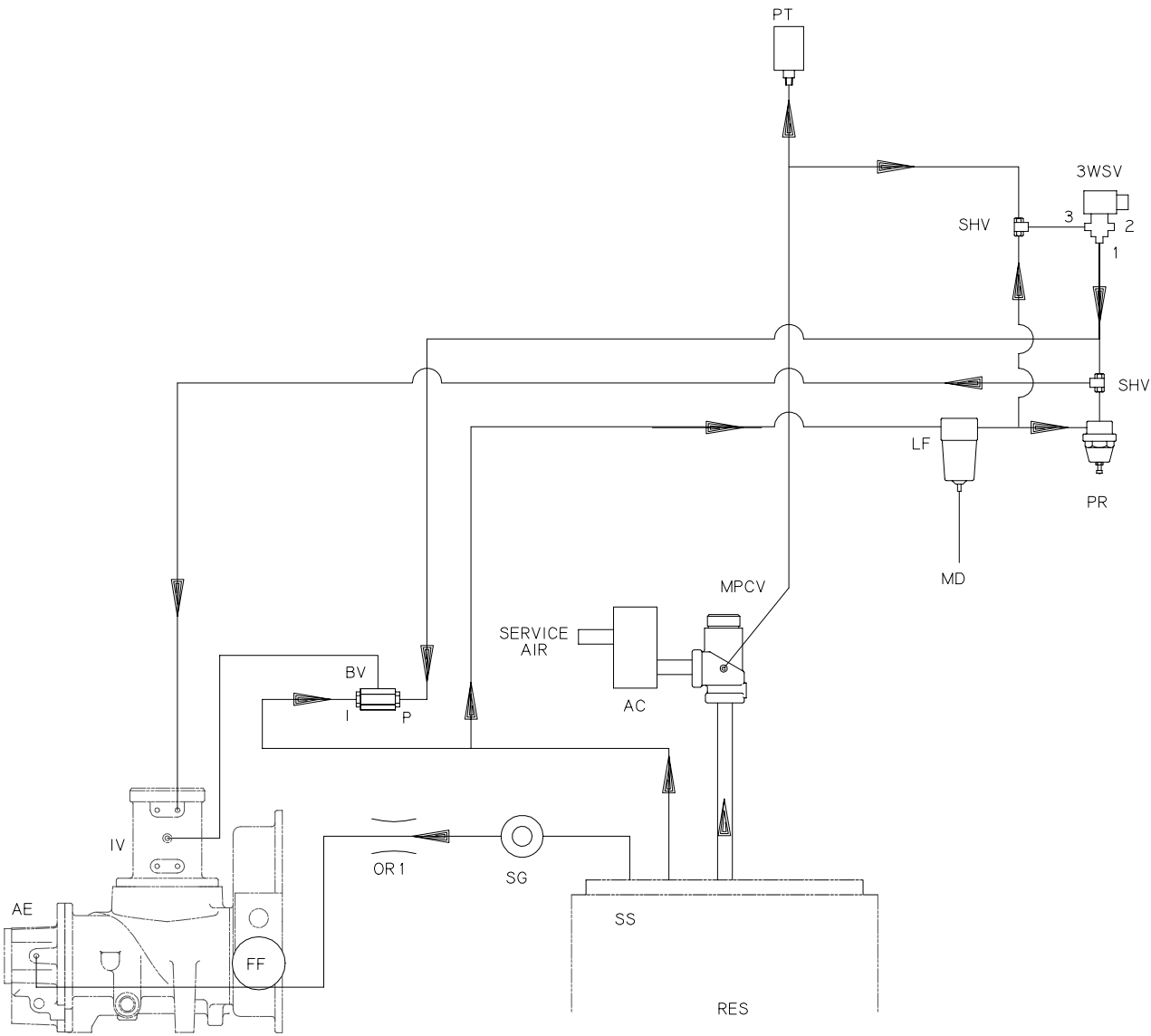
NOTES:

* DASH NUMBER CHANGES ACCORDING TO HORSEPOWER (HP) AND PRESSURE (PSI) OF UNIT.

** USE APPROPRIATE DECAL FOR FLUID TYPE USED.

CONTROL SCHEMATIC (stock)

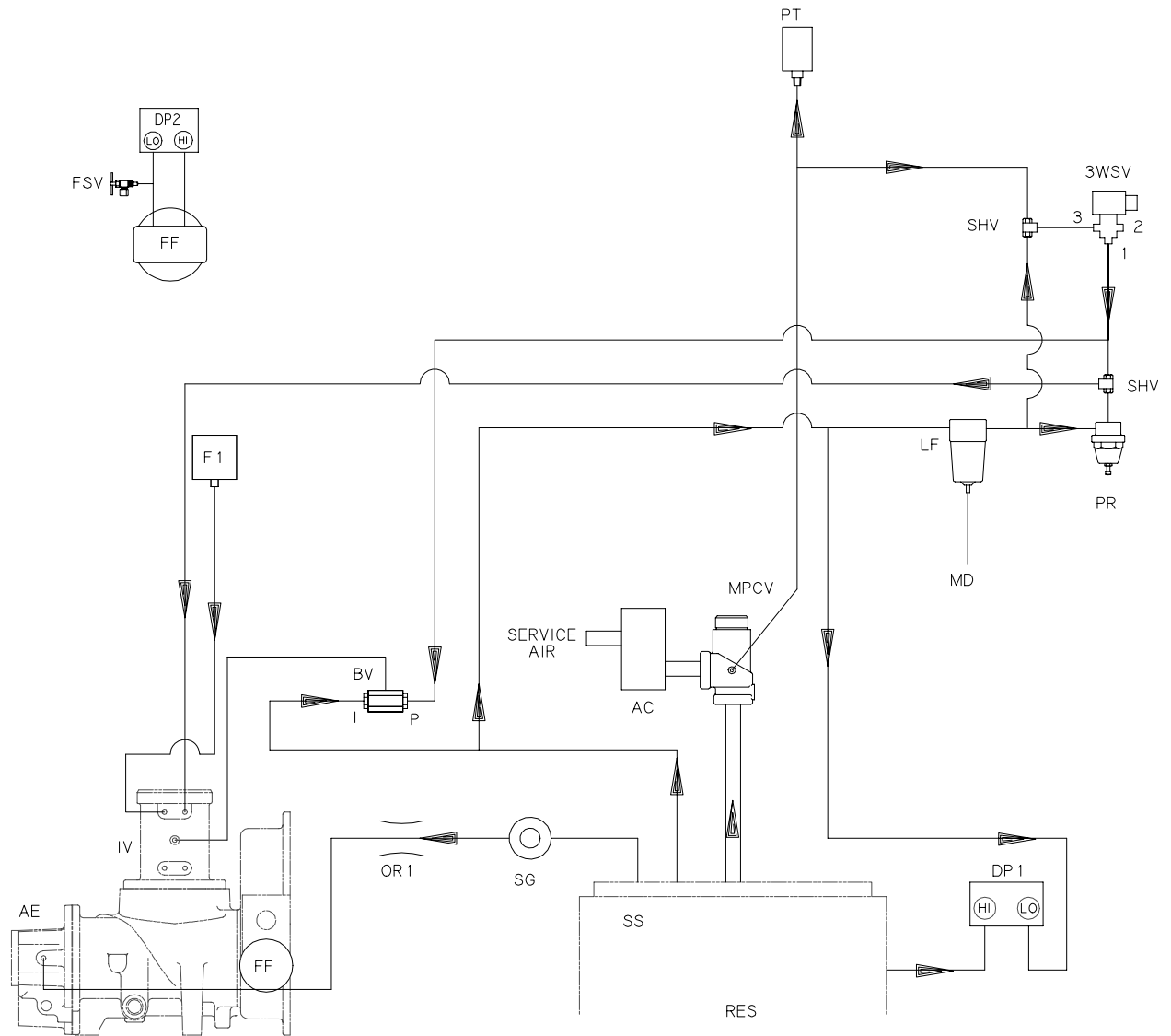
143383-1



AC	AFTERCOOLER	OR1	SCAVENGE ORIFICE (0.040)
AE	AIREND	RES	RESERVOIR
BV	BLOWDOWN VALVE	SG	SCAVENGE SIGHTGLASS
FF	FLUID FILTER	SHV	SHUTTLE VALVE
IV	INLET VALVE	SS	SEPARATOR SCAVENGE
LF	LINE FILTER	PR	PRESSURE REGULATOR
MD	MOISTURE DRAIN	PT	PRESSURE TRANSDUCER
MPCV	MINIMUM PRESSURE CHECK VALVE	3WSV	3-WAY SOLENOID VALVE

CONTROL SCHEMATIC (stock option) (with Differential Pressure Switches)

143383-2

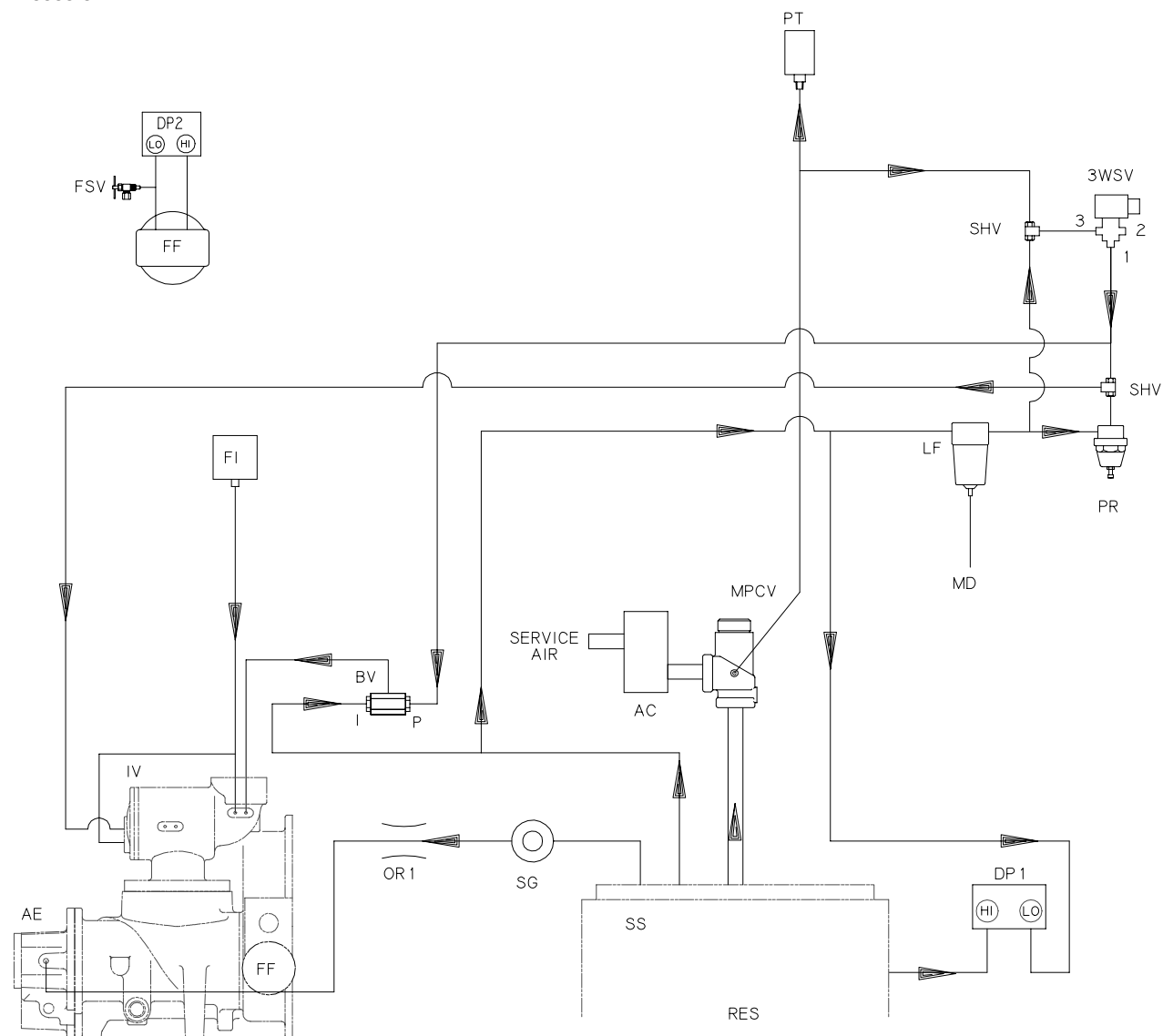


AC AFTERCOOLER
AE AIREND
BV BLOWDOWN VALVE
DP1 DIFFERENTIAL PRESSURE SWITCH-SEPARATOR
DP2 DIFFERENTIAL PRESSURE SWITCH-FLUID FILTER
F1 AIR FILTER INDICATOR SWITCH
FF FLUID FILTER
FSV FLUID SAMPLE VALVE
IV INLET VALVE
LF LINE FILTER

MD MOISTURE DRAIN
MPCV MINIMUM PRESSURE CHECK VALVE
OR1 SCAVENGE ORIFICE (0.040)
PR PRESSURE REGULATOR
PT PRESSURE TRANSDUCER
RES RESERVOIR
SG SCAVENGE SIGHTGLASS
SHV SHUTTLE VALVE
SS SEPARATOR
3WSV 3-WAY SOLENOID VALVE

CONTROL SCHEMATIC (standard, with modulation)

143383-3

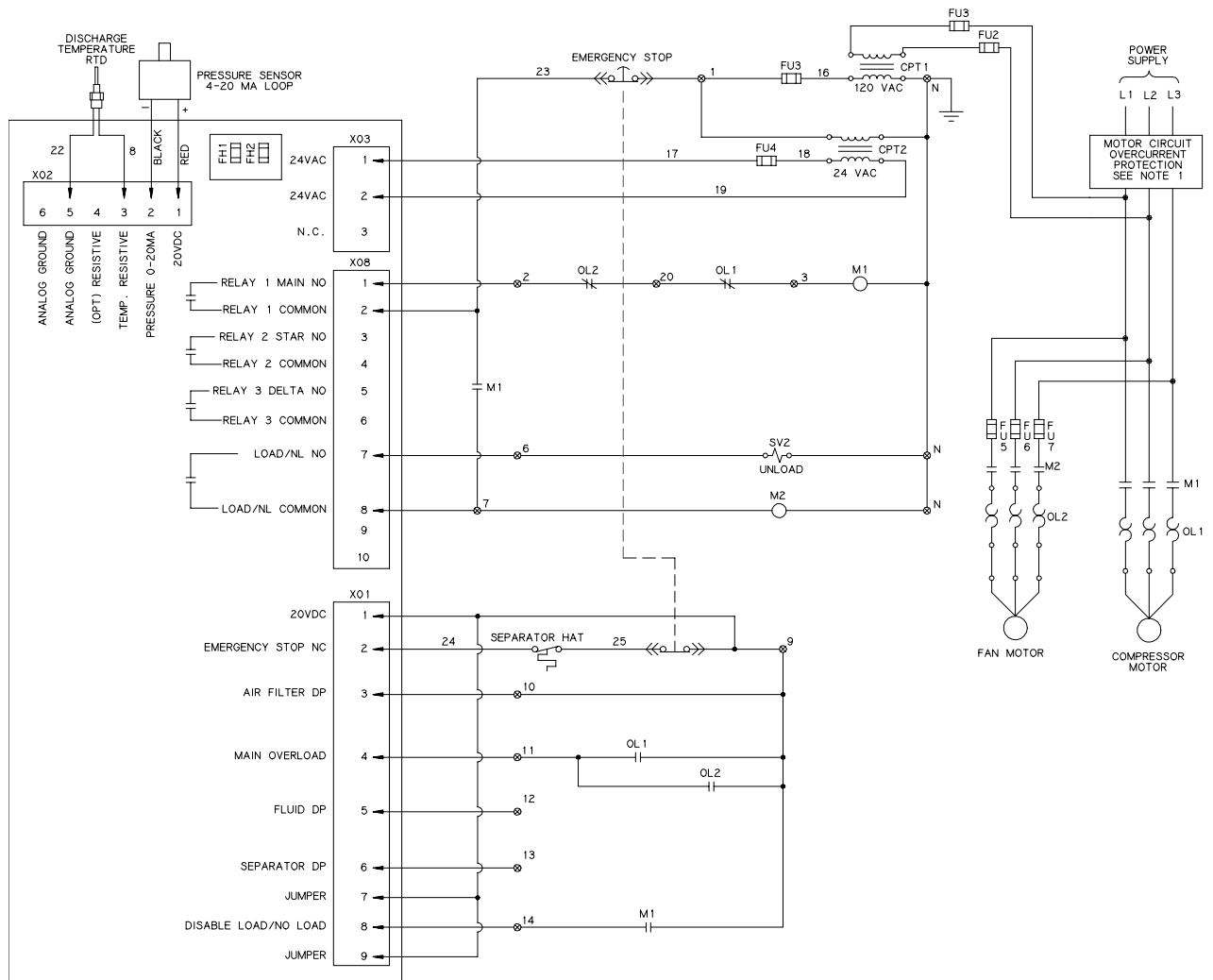


AC AFTERCOOLER
 AE AIREND
 BV BLOWDOWN VALVE
 DP1 DIFFERENTIAL PRESSURE SWITCH-SEPARATOR
 DP2 DIFFERENTIAL PRESSURE SWITCH-FLUID FILTER
 FI AIR FILTER INDICATOR SWITCH
 FF FLUID FILTER
 FSV FLUID SAMPLE VALVE
 IV INLET VALVE
 LF LINE FILTER

MD MOISTURE DRAIN
 MPCV MINIMUM PRESSURE CHECK VALVE
 OR1 SCAVENGE ORIFICE (0.040)
 PR PRESSURE REGULATOR
 PT PRESSURE TRANSDUCER
 RES RESERVOIR
 SG SCAVENGE SIGHTGLASS
 SHV SHUTTLE VALVE
 SS SEPARATOR SCAVENGE
 3WSV 3-WAY SOLENOID VALVE

ELECTRICAL CONTROL DIAGRAM (across the line, stock)

WP2001A1



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) AT INSTALLATION THE CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERCURRENT PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED EXCEPT "N" WIRES ARE WHITE AND "G" WIRE IS GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER, AND INDICATOR LIGHTS ARE LOCATED IN THE CONTROL PANEL.

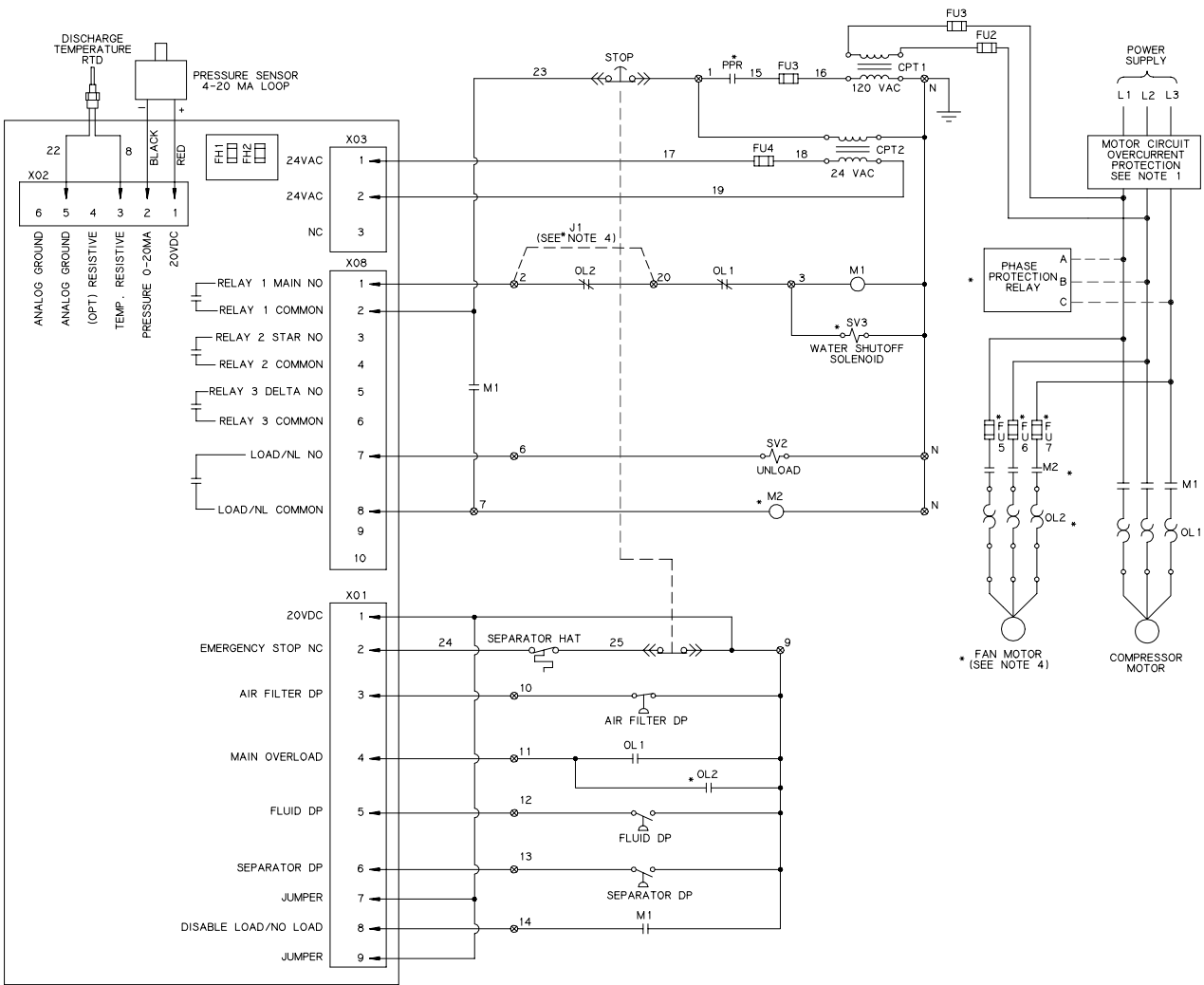
NOMENCLATURE

FU	FUSE
PB	PUSH BUTTON
CPT	CONTROL POWER TRANS
OL	OVERLOAD RELAY
M	CONTACTOR
SV	SOLENOID VALVE
⊗	SCREW TERMINAL
HM	HOUR METER
<<>>	QUICK CONNECT LUGS

ELECTRICAL CONTROL DIAGRAM

(across the line, standard)

WP2001A



NOTES-UNLESS OTHERWISE SPECIFIED:

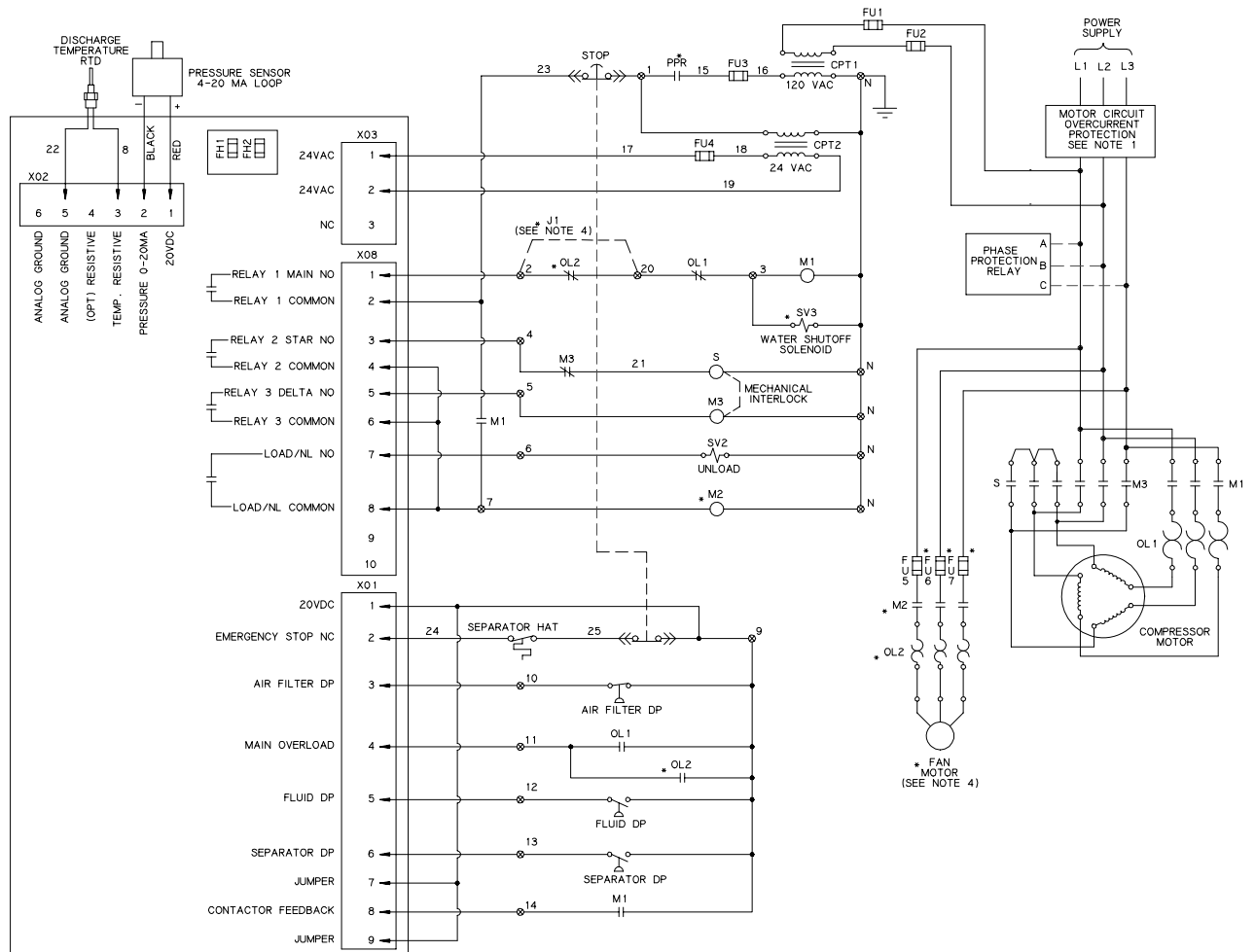
- 1) AT INSTALLATION THE CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERCURRENT PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED EXCEPT "N" WIRES ARE WHITE AND "G" WIRE IS GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER, AND INDICATOR LIGHTS ARE LOCATED IN THE CONTROL PANEL.
- 4) FAN MOTOR USED ON ALL STANDARD AIR-COOLED UNITS AND ALSO WATER-COOLED CANOPY VENT FAN. JUMPER TO BE PLACED BETWEEN TERMINALS 2 AND 20 FOR WATER-COOLED UNITS.

NOMENCLATURE

- FU FUSE
PB PUSH BUTTON
CPT CONTROL POWER TRANS
OL OVERLOAD RELAY
M CONTACTOR
SV SOLENOID VALVE
⊗ SCREW TERMINAL
* OPTIONAL
HM HOUR METER
<<>> QUICK CONNECT LUGS
DP DIFERENTIAL PRESSURE

ELECTRICAL CONTROL DIAGRAM (wye-delta)

WP2001B



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) AT INSTALLATION THE CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERCURRENT PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED EXCEPT "N" WIRES ARE WHITE AND "G" WIRE IS GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER, AND INDICATOR LIGHTS ARE LOCATED IN THE CONTROL PANEL.
- 4) FAN MOTOR USED ON ALL STANDARD AIR-COOLED UNITS AND ALSO WATER-COOLED CANOPY VENT FAN. JUMPER TO BE PLACED BETWEEN TERMINALS 2 AND 20 FOR WATER-COOLED UNITS.

NOMENCLATURE

FU	FUSE
PB	PUSH BUTTON
CPT	CONTROL POWER TRANS
OL	OVERLOAD RELAY
M	CONTACTOR
SV	SOLENOID VALVE
⊗	SCREW TERMINAL
*	OPTIONALS
HM	HOUR METER
<<>>	QUICK CONNECT LUGS
DP	DIFFERENTIAL PRESSURE

RECOMMENDED SPARE PARTS

QTY.	PART NUMBER	DESCRIPTION
1	140209	KIT-SHAFT SEAL
2	122880-222	SWITCH-TEMPERATURE
1	20775	KIT-DIFFERENTIAL PILOT VALVE
1	129732-050	KIT-LINE FILTER
1	124487-021	SEPARATOR
1	128691-051	KIT-MINIMUM PRESSURE CHECK VALVE
1	140147	VALVE-THERMAL, CARTRIDGE (<i>air-cooled only</i>)
*2	128381-050	ELEMENT-FLUID FILTER
*2	126467E450	ELEMENT-AIR FILTER
*1	23458-4	ELEMENT-AIR FILTER (<i>heavy duty</i>)
*1	127462-005	FLUID-QUINSYN (5 GALLON CONTAINER)
*1	110756-005	FLUID-QUINSYN-F (5 GALLON CONTAINER)
*1	141140-005	FLUID-QUINSYN IV (5 GALLON CONTAINER)

NOTES:

- 1) THE ITEMS MARKED (*) ABOVE ARE INCLUDED IN THE MAINTENANCE KITS BELOW AND ON THE FOLLOWING PAGE.
- 2) ALL QSF UNITS ARE SHIPPED WITH QUINSYN IV FLUID UNLESS OTHERWISE SPECIFIED.

MAINTENANCE KITS

QUINSYN IV

1	127667QS94	MAINTENANCE KIT <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
4	126467E450	ELEMENT-AIR FILTER
2	141140-005	FLUID-QUINSYN IV (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS
1	127667QS86	MAINTENANCE KIT (HEAVY DUTY FILTER) <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
2	23458-4	ELEMENT-AIR FILTER
2	141140-005	FLUID-QUINSYN IV (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS

MAINTENANCE KITS

QTY.	PART NUMBER	DESCRIPTION
<u>QUINSYN</u>		
1	127667-S94	MAINTENANCE KIT <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
4	126467E450	ELEMENT-AIR FILTER
2	127462-005	FLUID-QUINSYN (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS
1	127667-S86	MAINTENANCE KIT (HEAVY DUTY FILTER) <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
2	23458-4	ELEMENT-AIR FILTER
2	127462-005	FLUID-QUINSYN (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS
<u>QUINSYN-F (FOOD GRADE)</u>		
1	127667FS94	MAINTENANCE KIT <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
4	126467E450	ELEMENT-AIR FILTER
2	110756-005	FLUID-QUINSYN F (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS
1	127667FS86	MAINTENANCE KIT (HEAVY DUTY FILTER) <i>includes:</i>
3	128381-050	ELEMENT-FLUID FILTER
2	23458-4	ELEMENT-AIR FILTER
2	110756-005	FLUID-QUINSYN F (5 GALLON CONTAINER)
1	124487-021	SEPARATOR-AIR/FLUID, PRIMARY
1	128515-3	KIT-FLUID ANALYSIS

FLUID ANALYSIS KIT 128515

Provides Early Detection of Excessive Parts Wear, Fluid Breakdown, or a Contaminated Fluid System.

Notes

[illegible]



an EnPro Industries company

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Website: www.quincycompressor.com



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