

Manual 1872 Rev B 001872 0000

**WARNING: Do Not Operate Before Reading Manual** 

## KT™ Filter Kit OPERATOR'S MANUAL

Models KT-150 KT-300 KT-500 KT-850



## Disclaimer Statement:

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# KT-150 FILTER SYSTEM KIT COMPONENTS

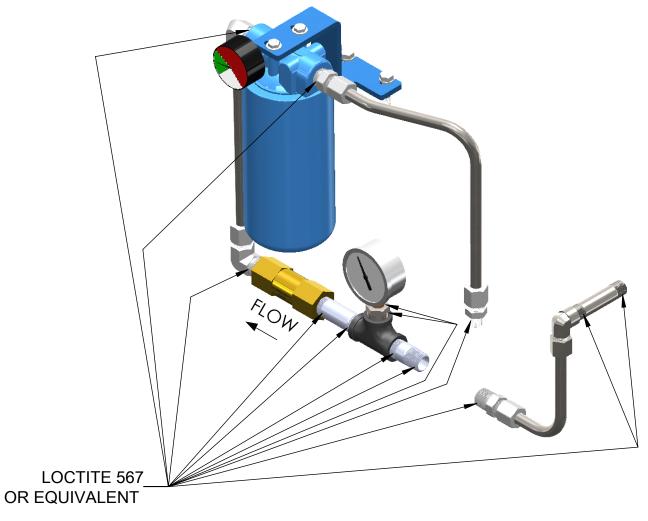


Figure 1-1 – KT-150 Filter Kit (Retrofit Installation Only)



#### (RETROFIT INSTALLATION ONLY)

- Lockout/Tagout machine. Use caution as oil & surfaces may be hot. Allow pump to cool to at least 100°F before proceeding to drain oil.
- Remove all existing oil plumbing except for the oil pump.
- Ensure remaining plumbing ports are free of debris
- Remove the two bolts in the separator housing where the bracket will be mounted (refer to FIGURE 1-2). These bolts will not be reused.
- Loosely attach filter housing/bracket assembly using bolts and washers (#20 & #21 – FIGURE 1-2).
- 6. Install kit plumbing as shown in FIGURE 1-2 starting with #1 using the Loctite 567 on all NPT parts. Tighten NPT fittings, but leave tube fittings loose until assembled. Tubes may be shortened/cut using a standard tube cutter. Ensure check valve is orientated correctly with flow.
- 7. Once all plumbing is completely installed, tighten remaining tube fittings.
- 8. Refill oil per operators manual.

#### **NOTES:**

- Use only genuine Kinney Replacement Oil Filter (part # 058379 0000). Contact your local Kinney distributor or email Customer Service to reorder replacement oil filters.
- When starting KT Pump the green/red gage (#14 – FIGURE 1-2) needle may be in the red until the oil is above 140°F, this is normal. If gage needle is in the red when temperature is above 140°F, replace filter.

#### **NOTICE**

Ensure check valve is installed correctly with respect to flow. Incorrectly installed check valve can result in pump failure and require total rebuild.

#### **NOTICE**

Do not use Teflon tape. This may void warranty.

## **!** WARNING



Vacuum pump housing and associated piping or accessories may become hot enough to cause major skin burns on contact as a result of process conditions.

## **MARNING**

Use lockout / tagout procedures to disable the electrical energy source before any service or work is done on the vacuum pumps.

## **MARNING**

Hot oil can cause severe burns. Never remove filter while pump is running.

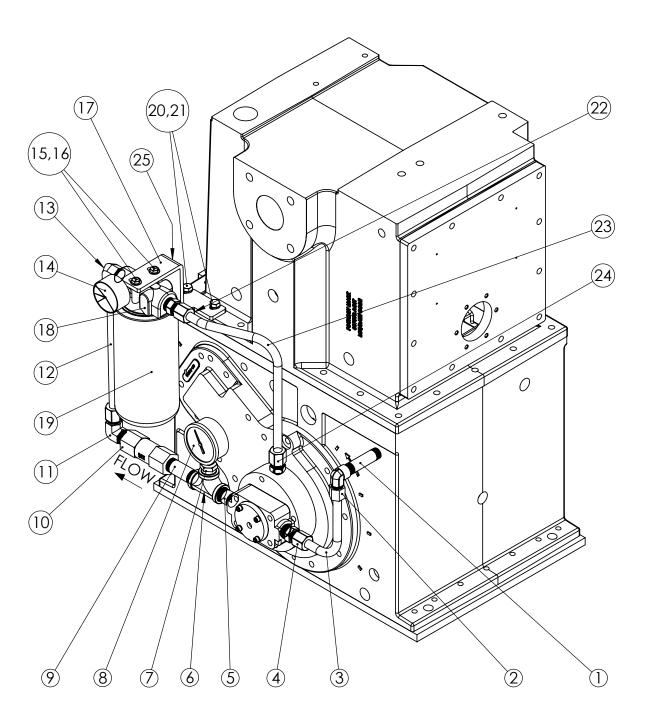


Figure 1-2 – KT-150 Filter Kit Drawing



## KT-150 FILTER SYSTEM KIT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UNIT
1	057715 00ST*	NIPPLE 3/8 NPT X 3 LG, STEEL	1	EA
2	078064 00ST*	FEMALE ELBOW 1/2 X 3/8	1	EA
3	157163 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
4	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
5	057235 00ST*	NIPPLE 1/2 NPT X 2 LG STEEL	1	EA
6	057025 00MI*	TEE 1/2 NPT MALLEABLE IRON	1	EA
7	055004 00MI*	HEX HEAD BUSHING 1/2 X 1/4 NPT	1	EA
8	074510 0000	PRESSURE GAGE 0-160 PSIG 1/4 NPT BZ MT	1	EA
9	057237 00ST*	NIPPLE 1/2 NPT X 3 LG STEEL	1	EA
10	066673 00BR	VALVE SPRING CHECK 1/2 NPT BRASS	1	EA
11	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
12	157164 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
13	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
14	058377 0000	FILTER CHANGE INDICATOR/GAUGE	1	EA
15	052220 0STZ*	HEX HEAD CAP SCREW 1/4-20 X 5/8	2	EA
16	053132 0STZ*	PLAIN WASHER 1/4, ZINCCOATED STEEL	2	EA
17	074923 00ST	BRACKET,OIL FILTER KT150	1	EA
18	058378 0000	OIL FILTER HOUSING	1	EA
19	058379 0000	OIL FILTER SPIN-ON	1	EA
20	052112 0STZ*	HEX HEAD CAP SCREW 5/16-18 X 1-3/4	2	EA
21	053174 0STZ*	LOCKWASHER 5/16, REGULAR, SPRING	2	EA
22	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
23	157165 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
24	078101 00ST*	MALE CONNECTOR 1/2 X 1/4	1	EA
25	819924 0000*	LABEL, REPLACEMENT OIL FILTER	1	EA
26	819923 0000*	SEALANT, LOCTITE #567, THREAD SEAL 6ML TUBE	1	EA

NOTE: \*Not available for individual purchase.



# KT-300 FILTER SYSTEM KIT COMPONENTS

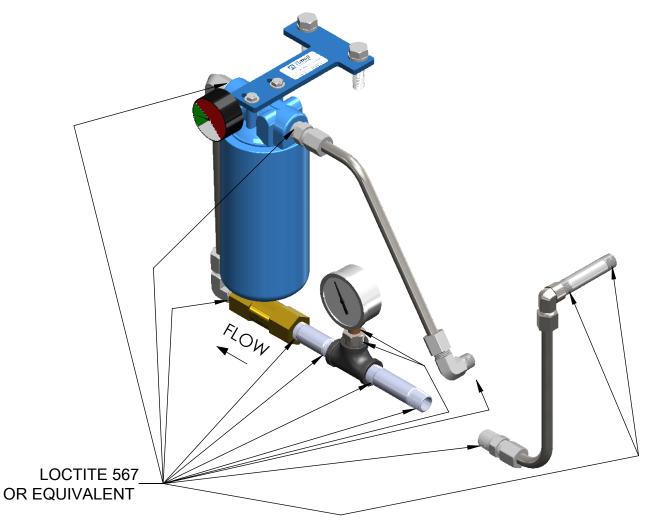


Figure 2-1 – KT-300 Filter Kit (Retrofit Installation Only)



#### (RETROFIT INSTALLATION ONLY)

- Lockout/Tagout machine. Use caution as oil & surfaces may be hot. Allow pump to cool to at least 100°F before proceeding to drain oil.
- Remove all existing oil plumbing except for the oil pump.
- Ensure remaining plumbing ports are free of debris.
- Remove the two bolts in the separator housing where the bracket will be mounted (refer to FIGURE 2-2). These bolts will not be reused.
- Loosely attach filter housing/bracket assembly using bolts and washers (#20 & #21 – FIGURE 2-2).
- 6. Install kit plumbing as shown in FIGURE 2-2 starting with #1 using the Loctite 567 on all NPT parts. Tighten NPT fittings, but leave tube fittings loose until assembled. Tubes may be shortened/cut using a standard tube cutter. Ensure check valve is orientated correctly with flow.
- 7. Once all plumbing is completely installed, tighten remaining tube fittings.
- 8. Refill oil per operators manual.

#### **NOTES:**

- Use only genuine Kinney Replacement Oil Filter (part # 058379 0000). Contact your local Kinney distributor or email Customer Service to reorder replacement oil filters.
- When starting KT Pump the green/red gage (#14 – FIGURE 2-2) needle may be in the red until the oil is above 140°F, this is normal. If gage needle is in the red when temperature is above 140°F, replace filter.

#### **NOTICE**

Ensure check valve is installed correctly with respect to flow. Incorrectly installed check valve can result in pump failure and require total rebuild.

#### **NOTICE**

Do not use Teflon tape. This may void warranty.

## **!** WARNING



Vacuum pump housing and associated piping or accessories may become hot enough to cause major skin burns on contact as a result of process conditions.

## **WARNING**

Use lockout / tagout procedures to disable the electrical energy source before any service or work is done on the vacuum pumps.

## **MARNING**

Hot oil can cause severe burns. Never remove filter while pump is running.

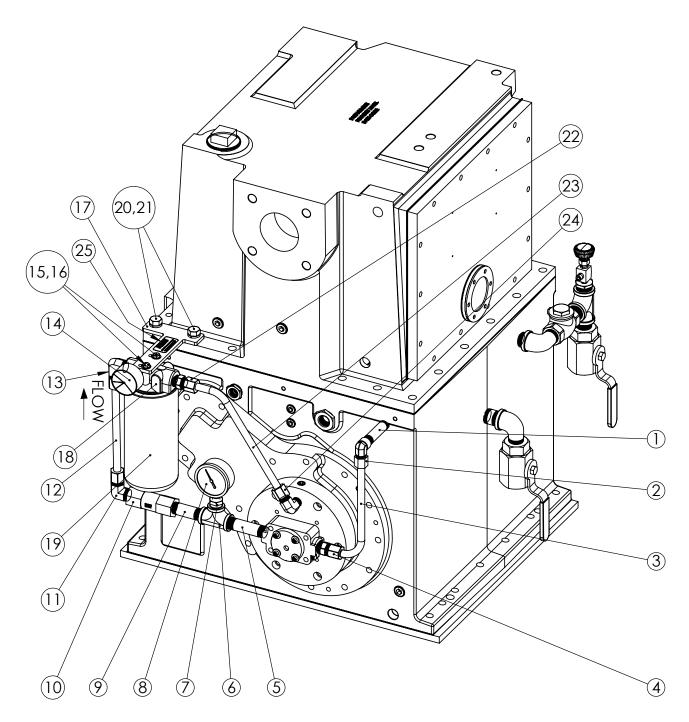


Figure 2-2 – KT-300 Filter Kit Drawing



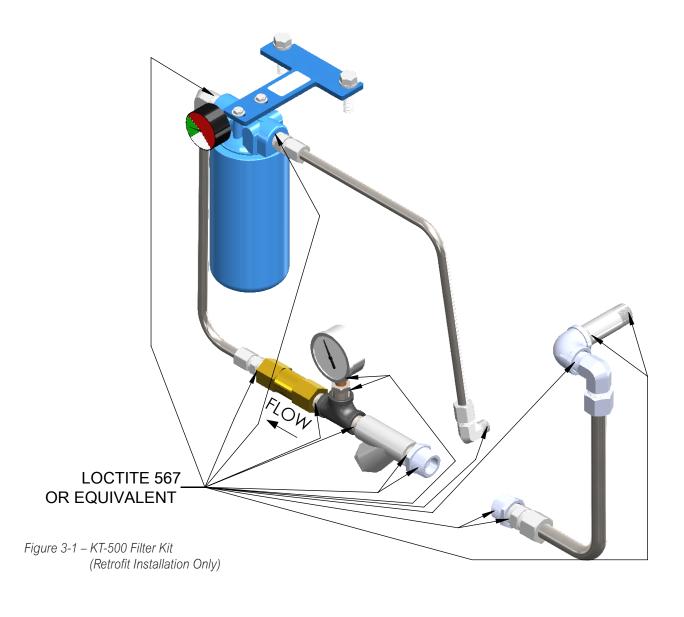
## KT-300 FILTER SYSTEM KIT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UNIT
1	057977 032F*	NIPPLE 3/8 NPT X 3-1/4 LG, STEEL	1	EA
2	078064 00ST*	FEMALE ELBOW 1/2 X 3/8	1	EA
3	157166 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
4	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
5	057239 00ST*	NIPPLE 1/2 NPT X 3-1/2 LG STEEL	1	EA
6	057025 00MI*	TEE 1/2 NPT MALLEABLE IRON	1	EA
7	055004 00MI*	HEX HEAD BUSHING 1/2 X 1/4 NPT	1	EA
8	074510 0000	PRESSURE GAGE 0-160 PSIG 1/4 NPT BZ MT	1	EA
9	057237 00ST*	NIPPLE 1/2 NPT X 3 LG STEEL	1	EA
10	066673 00BR	VALVE SPRING CHECK 1/2 NPT BRASS	1	EA
11	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
12	157167 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
13	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
14	058377 0000	FILTER CHANGE INDICATOR/GAUGE	1	EA
15	052220 0STZ*	HEX HEAD CAP SCREW 1/4-20 X 5/8	2	EA
16	053132 0STZ*	PLAIN WASHER 1/4, ZINCCOATED STEEL	2	EA
17	074924 00ST	BRACKET,OIL FILTER KT300	1	EA
18	058378 0000	OIL FILTER HOUSING	1	EA
19	058379 0000	OIL FILTER SPIN-ON	1	EA
20	052291 0STZ*	HEX HEAD CAP SCREW 1/2-13 X 1-3/4	2	EA
21	053173 0STZ*	LOCKWASHER 1/2 REGULAR, SPRING	2	EA
22	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
23	157168 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
24	078055 00ST*	MALE ELBOW 1/2 X 3/8	1	EA
25	819924 0000*	LABEL, REPLACEMENT OIL FILTER	1	EA
26	819923 0000*	SEALANT, LOCTITE #567, THREAD SEAL 6ML TUBE	1	EA

NOTE: \*Not available for individual purchase.



## KT-500 FILTER SYSTEM KIT COMPONENTS





#### (RETROFIT INSTALLATION ONLY)

- Lockout/Tagout machine. Use caution as oil & surfaces may be hot. Allow pump to cool to at least 100°F before proceeding to drain oil.
- Remove all existing oil plumbing except for the oil pump.
- Ensure remaining plumbing ports are free of debris.
- Remove the two bolts in the separator housing where the bracket will be mounted (refer to FIGURE 3-2). These bolts will not be reused.
- Loosely attach filter housing/bracket assembly using bolts and washers (#20 & #21 – FIGURE 3-2).
- 6. Install kit plumbing as shown in FIGURE 3-2 starting with #1 using the Loctite 567 on all NPT parts. Tighten NPT fittings, but leave tube fittings loose until assembled. Tubes may be shortened/cut using a standard tube cutter. Ensure check valve is orientated correctly with flow.
- 7. Once all plumbing is completely installed, tighten remaining tube fittings.
- 8. Refill oil per operators manual.

#### **NOTES:**

- Use only genuine Kinney Replacement Oil Filter (part # 058379 0000). Contact your local Kinney distributor or email Customer Service to reorder replacement oil filters.
- When starting KT Pump the green/red gage (#14 – FIGURE 3-2) needle may be in the red until the oil is above 140°F, this is normal. If gage needle is in the red when temperature is above 140°F, replace filter.

#### **NOTICE**

Ensure check valve is installed correctly with respect to flow. Incorrectly installed check valve can result in pump failure and require total rebuild.

#### **NOTICE**

Do not use Teflon tape. This may void warranty.

## **!** WARNING



Vacuum pump housing and associated piping or accessories may become hot enough to cause major skin burns on contact as a result of process conditions.

## **WARNING**

Use lockout / tagout procedures to disable the electrical energy source before any service or work is done on the vacuum pumps.

### **MARNING**

Hot oil can cause severe burns. Never remove filter while pump is running.



#### KT500 FILTER SYSTEM

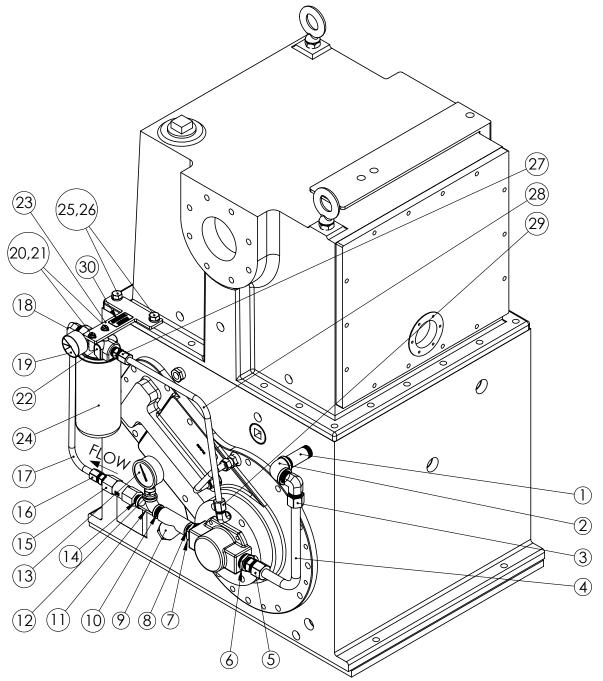


Figure 3-2 – KT-500 Filter Kit Drawing



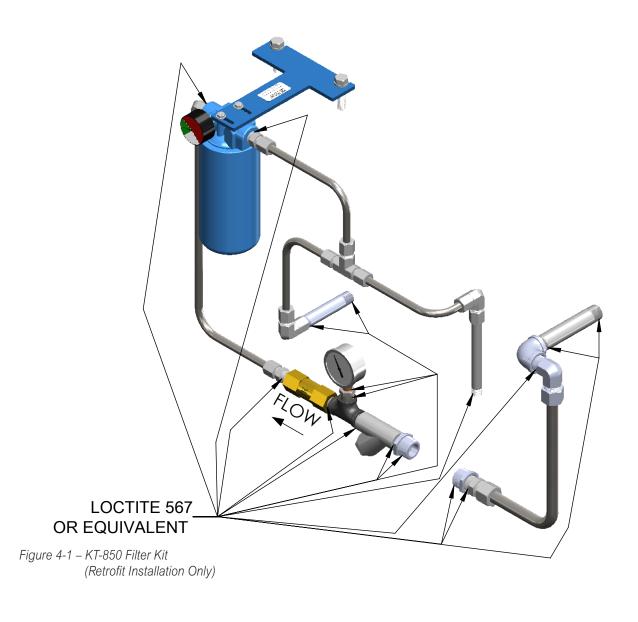
## KT-500 FILTER SYSTEM KIT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UNIT
1	057256 00ST*	NIPPLE 3/4 NPT X 3-1/2 LG STEEL	1	EA
2	057062 00MI*	ELBOW 90 X 3/4 NPT MALLEABLE IRON	1	EA
3	078129 00ST*	MALE ELBOW 3/4 X 3/4	1	EA
4	157169 00ST	3/4 O.D.HYDRAULIC STEEL TUBING	1	EA
5	078047 00ST*	MALE CONNECTOR 3/4 X 3/4	1	EA
6	055010 00MI*	HEX HEAD BUSHING 1 X 3/4 NPT	1	EA
7	055012 00MI*	HEX HEAD BUSHING 1 X 1/2 NPT	1	EA
8	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
9	057753 00CI*	Y-STRAINER 1/2, CAST IRON	1	EA
10	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
11	057025 00MI*	TEE 1/2 NPT MALLEABLE IRON	1	EA
12	055004 00MI*	HEX HEAD BUSHING 1/2 X 1/4 NPT	1	EA
13	074510 0000	PRESSURE GAGE 0-160 PSIG 1/4 NPT BZ MT	1	EA
14	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
15	066673 00BR	VALVE SPRING CHECK 1/2 NPT BRASS	1	EA
16	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
17	157170 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
18	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
19	058377 0000	FILTER CHANGE INDICATOR/GAUGE	1	EA
20	052220 0STZ*	HEX HEAD CAP SCREW 1/4-20 X 5/8	2	EA
21	053132 0STZ*	PLAIN WASHER 1/4, ZINCCOATED STEEL	2	EA
22	058378 0000	OIL FILTER HOUSING	1	EA
23	074925 00ST	BRACKET,OIL FILTER KT500	1	EA
24	058379 0000	OIL FILTER SPIN-ON	1	EA
25	052291 0STZ*	HEX HEAD CAP SCREW 1/2-13 X 1-3/4	2	EA
26	053173 0STZ*	LOCKWASHER 1/2 REGULAR, SPRING	2	EA
27	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
28	157171 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
29	078055 00ST*	MALE ELBOW 1/2 X 3/8	1	EA
30	819924 0000*	LABEL, REPLACEMENT OIL FILTER	1	EA
31	819923 0000*	SEALANT, LOCTITE #567, THREAD SEAL 6ML TUBE	1	EA

NOTE: \*Not available for individual purchase.



## KT-850 FILTER SYSTEM KIT COMPONENTS





#### (RETROFIT INSTALLATION ONLY)

- Lockout/Tagout machine. Use caution as oil & surfaces may be hot. Allow pump to cool to at least 100°F before proceeding to drain oil.
- Remove all existing oil plumbing except for the oil pump.
- Ensure remaining plumbing ports are free of debris.
- Remove the two bolts in the separator housing where the bracket will be mounted (refer to FIGURE 4-2). These bolts will not be reused.
- Loosely attach filter housing/bracket assembly using bolts and washers (#20 & #21 – FIGURE 4-2).
- 6. Install kit plumbing as shown in FIGURE 4-2 starting with #1 using the Loctite 567 on all NPT parts. Tighten NPT fittings, but leave tube fittings loose until assembled. Tubes may be shortened/cut using a standard tube cutter. Ensure check valve is orientated correctly with flow.
- 7. Once all plumbing is completely installed, tighten remaining tube fittings.
- 8. Refill oil per operators manual.

#### **NOTES:**

- Use only genuine Kinney Replacement Oil Filter (part # 058379 0000). Contact your local Kinney distributor or email Customer Service to reorder replacement oil filters.
- When starting KT Pump the green/red gage (#14 – FIGURE 4-2) needle may be in the red until the oil is above 140°F, this is normal. If gage needle is in the red when temperature is above 140°F, replace filter.

#### **NOTICE**

Ensure check valve is installed correctly with respect to flow. Incorrectly installed check valve can result in pump failure and require total rebuild.

#### **NOTICE**

Do not use Teflon tape. This may void warranty.

## **MARNING**



Vacuum pump housing and associated piping or accessories may become hot enough to cause major skin burns on contact as a result of process conditions.

## **MARNING**

Use lockout / tagout procedures to disable the electrical energy source before any service or work is done on the vacuum pumps.

## **WARNING**

Hot oil can cause severe burns. Never remove filter while pump is running.

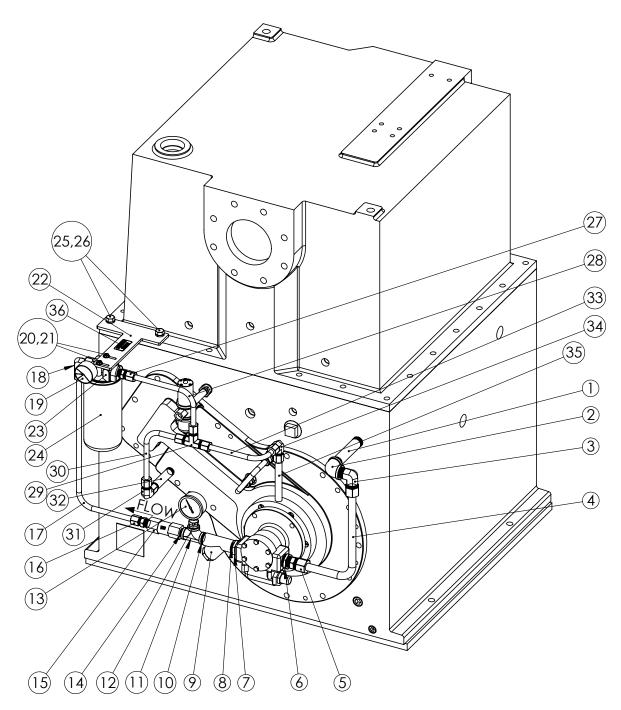


Figure 4-2 – KT-850 Filter Kit Drawing



## KT-850 FILTER SYSTEM KIT PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UNIT
1	057261 00ST*	NIPPLE 3/4 NPT X 5-1/2 LG STEEL	1	EA
2	057062 00MI*	ELBOW 90 X 3/4 NPT MALLEABLE IRON	1	EA
3	078129 00ST*	MALE ELBOW 3/4 X 3/4	1	EA
4	157172 00ST	3/4 O.D.HYDRAULIC STEEL TUBING	1	EA
5	078047 00ST*	MALE CONNECTOR 3/4 X 3/4	1	EA
6	055010 00MI*	HEX HEAD BUSHING 1 X 3/4 NPT	1	EA
7	055012 00MI*	HEX HEAD BUSHING 1 X 1/2 NPT	1	EA
8	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
9	057753 00CI*	Y-STRAINER 1/2, CAST IRON	1	EA
10	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
11	057025 00MI*	TEE 1/2 NPT MALLEABLE IRON	1	EA
12	055004 00MI*	HEX HEAD BUSHING 1/2 X 1/4 NPT	1	EA
13	074510 0000	PRESSURE GAGE 0-160 PSIG 1/4 NPT BZ MT	1	EA
14	057200 00ST*	NIPPLE 1/2 NPT X 1-1/8 LG STEEL	1	EA
15	066673 00BR	VALVE SPRING CHECK 1/2 NPT BRASS	1	EA
16	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
17	157173 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
18	078056 00ST*	MALE ELBOW 1/2 X 1/2	1	EA
19	058377 0000	FILTER CHANGE INDICATOR/GAUGE	1	EA
20	052220 0STZ*	HEX HEAD CAP SCREW 1/4-20 X 5/8	2	EA
21	053132 0STZ*	PLAIN WASHER 1/4, ZINCCOATED STEEL	2	EA
22	074926 00ST	BRACKET,OIL FILTER KT850	1	EA
23	058378 0000	OIL FILTER HOUSING	1	EA
24	058379 0000	OIL FILTER SPIN-ON	1	EA
25	052293 0STZ*	HEX HEAD CAP SCREW 1/2-13 X 2	2	EA
26	053173 0STZ*	LOCKWASHER 1/2 REGULAR, SPRING	2	EA
27	078042 00ST*	MALE CONNECTOR 1/2 X 1/2	1	EA
28	157174 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
29	078018 00ST*	UN TEE 1/2	1	EA
30	157175 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
31	078065 00ST*	FEMALE ELBOW 1/2 X 1/2	1	EA
32	057243 00ST*	NIPPLE 1/2 NPT X 4-1/2 LG STEEL	1	EA
33	157176 00ST	1/2 O.D.HYDRAULIC STEEL TUBING	1	EA
34	078064 00ST*	FEMALE ELBOW 1/2 X 3/8	1	EA
35	057673 00ST*	NIPPLE 3/8 NPT X 6 LG, STEEL	1	EA
36	819924 0000*	LABEL, REPLACEMENT OIL FILTER	1	EA
37	819923 0000*	SEALANT, LOCTITE #567, THREAD SEAL 6ML TUBE	1	EA

NOTE: \* Not available for individual purchase.



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