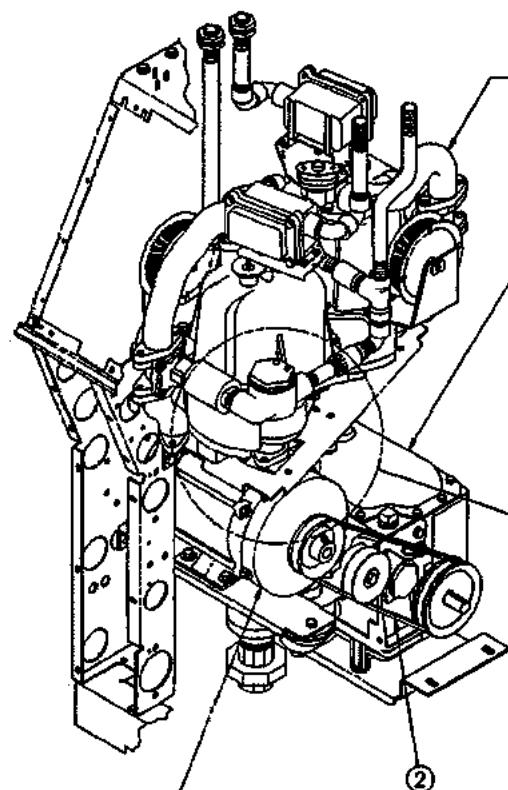


## Suction System

**TCS/TCSA Dispenser Parts Manual  
Form 4576A Version 1.0  
Tokheim Corporation February 1996**

# TCS SUCTION SYSTEM



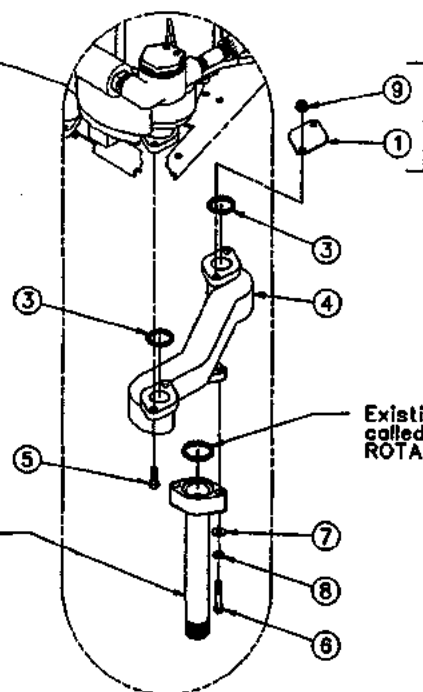
For parts callout of METER  
& HYDRAULICS ASSEMBLY  
see dwg. no. 741377

For parts callout of  
ROTARY PUMP ASSEMBLY  
see dwg. no. 741385

For parts callout of  
MOTOR ASSEMBLY  
see dwg. no. 741384

(Ref.) ROTARY PUMP ASSY.

| Item No. | Part No.  | Name Of Part                          |
|----------|-----------|---------------------------------------|
| 1        | 1-228345  | Manifold Cop                          |
| 2        | 10-37852  | "V" Belt                              |
| 3        | 13-313235 | Gasket                                |
| 4        | 1-418051  | Manifold                              |
| 5        | 35-50361  | 5/16-18 X 1" Lg. Hex Hd. Cap Screw    |
| 6        | 38-50361  | 5/16-18 X 1-3/4 Lg. Hex Hd. Cap Screw |
| 7        | 02-50611  | 1/4 Plate Washer                      |
| 8        | 14-50641  | 5/16 Lockwasher                       |
| 9        | 02-54752  | 5/16-18 M-F Flange Whiz Lock Nut      |



Used only on models  
311, 312, 413, H413 &  
614

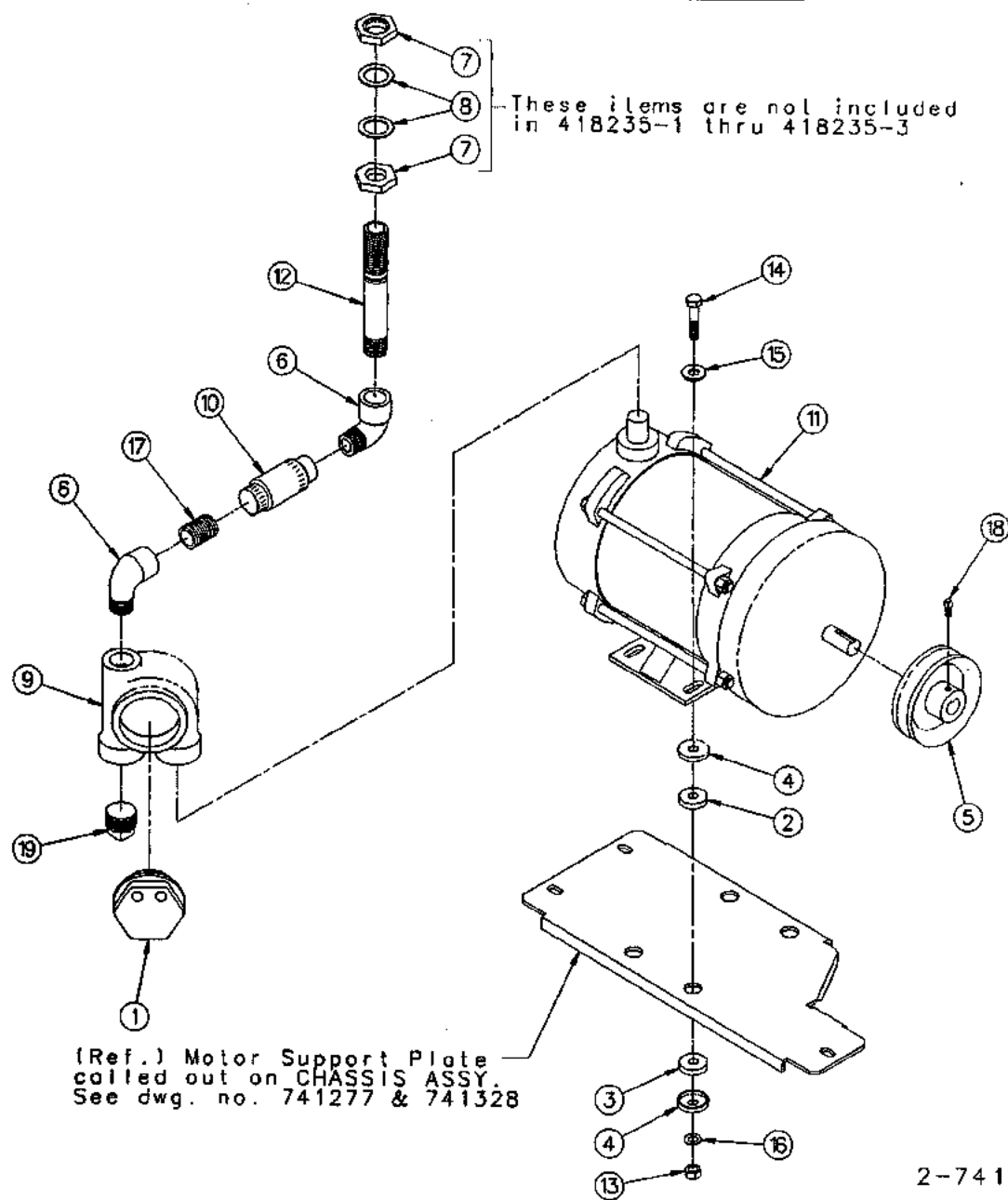
Existing gasket  
called out on  
ROTARY PUMP ASSY.

2-741374



*Notes*

# MOTOR ASSEMBLY FOR TCS



## MOTOR ASSEMBLY FOR TCS

| ITEM NO. | PART NO.                      | DESCRIPTION                              | ITEM NO. | PART NO. | DESCRIPTION                                                                            |
|----------|-------------------------------|------------------------------------------|----------|----------|----------------------------------------------------------------------------------------|
| 1        | 1-19167                       | Connection Box Cover                     | 18       | 65-50721 | 5/16-18 x 1/4" Long Hex Socket Headless Cup Point Set Screw                            |
| 2        | 1-114468                      | Cushion Grommet                          | 19       | 05-51890 | 3/4" Pipe Plug                                                                         |
| 3        | 1-114469                      | Cushion Washer                           |          |          |                                                                                        |
| 4        | 1-114470                      | Cushion Retainer                         |          |          |                                                                                        |
| 5        | <u>Motor Pulley</u>           |                                          |          |          | For complete 115/230 Volt Motor Assembly order:                                        |
|          | 1-119529                      | 115/230 Volt Motor                       | 418235-1 |          | Model 30" FP 1 & 2, 45" FP 1 & 3, 60" FP 1 & 4 (Includes Motor Support Plate 1-418201) |
|          | 1-220878                      | 380 Volt Motor                           | 418235-2 |          | Model 60" FP 2 & 3 (Includes Motor Support Plate 1-418197)                             |
| 6        | 1-128035                      | 1/2" x 90° Conduit Street Elbow          | 418235-3 |          | Model 45" FP 2 (Includes Motor Support Plate 1-418196)                                 |
| 7        | 1-130590                      | Conduit Nut                              |          |          | For complete 380 Volt Motor Assembly order:                                            |
| 8        | 1-130613                      | Conduit Washer                           | 418235-4 |          | Model 30" FP 1 & 2, 45" FP 1 & 3, 60" FP 1 & 4 (Includes Motor Support Plate 1-418201) |
| 9        | 1-23661                       | Connection Box                           | 418235-5 |          | Model 45" FP 2 (Includes Motor Support Plate 1-418196)                                 |
| 10       | 1-219892                      | Expansion Union (Female-Female)          | 418235-6 |          | Model 60" FP 2 & 3 (Includes Motor Support Plate 1-418197)                             |
| 11       | <u>1/2 H.P. Motor</u>         |                                          |          |          | Note: FP = Fuel Point                                                                  |
|          | 1-417119                      | General Electric (115/230 Volt)          |          |          |                                                                                        |
|          | 1-419102                      | Franklin Electric (115/230 Volt)         |          |          |                                                                                        |
|          | 2-420499                      | Franklin Electric (380 Volt)             |          |          |                                                                                        |
| 12       | <u>Motor Conduit Assembly</u> |                                          |          |          |                                                                                        |
|          | 418235-7                      | 115/230 Volt Motor                       |          |          |                                                                                        |
|          | 418235-8                      | 380 Volt Motor                           |          |          |                                                                                        |
| 13       | 02-50301                      | 5/16-18 Hex Nut                          |          |          |                                                                                        |
| 14       | 37-50361                      | 5/16-18 x 1-1/2" Long Hex Head Cap Screw |          |          |                                                                                        |
| 15       | 03-50611                      | 5/16" Plate Washer                       |          |          |                                                                                        |
| 16       | 14-50641                      | 5/16" Lockwasher                         |          |          |                                                                                        |
| 17       | 01-50710                      | Conduit Nipple                           |          |          |                                                                                        |

#

1-741385

1 of 1

# ROTARY PUMP ASSEMBLY FOR TCS

| ITEM NO. | PART NO.          | DESCRIPTION                                                   | ITEM NO. | PART NO.  | DESCRIPTION                               | ITEM NO. | PART NO. | DESCRIPTION        |
|----------|-------------------|---------------------------------------------------------------|----------|-----------|-------------------------------------------|----------|----------|--------------------|
| 1        | 1-114468          | Cushion Grommet                                               | 17       | 6-313235  | Coupling Gasket                           | 34       | 65-50721 | 5/16-18 X 1/4      |
| 2        | 1-114469          | Cushion Washer                                                | 18       | 14-313235 | Filter Adapter Gasket                     |          |          | Length Hex Socket  |
| 3        | 1-114470          | Cushion Retainer                                              | 19       | 16-313235 | Filter Adapter Cap                        |          |          | Headless Cup Point |
| 4        | 1-119636          | Key                                                           |          |           | Gasket                                    |          |          | Set Screw          |
| 5        | 1-125865          | 1" X 1-1/8" Length Nipple                                     | 20       | 1-318183  | Cap                                       | 35       | 27-51780 | 1-1/2 Female Union |
| 6        | 1-127786          | Grommet                                                       | 21       | 19-318940 | "O" Ring                                  | 36       | 05-51901 | 3/4 Pipe Plug      |
| 7        | 1-129618          | Flange                                                        | 22       | 2-418039  | Filter Adapter                            | 37       | 06-51901 | 1" Pipe Plug       |
| 8        | 1-216295          | Pump Pulley                                                   | 23       | 03-50301  | 3/8-16 Hex Nut                            | 38       | 05-52020 | Compression Elbow  |
| 9        | 1-217902          | Pump Inlet Connection Gasket                                  | 24       | 32-50361  | 5/16-18 X 5/8 Length Hex Head Cap Screw   | 39       | 05-52040 | Compression Sleeve |
| 10       | 1-217903          | Idler Arm                                                     | 25       | 33-50361  | 5/16-18 X 3/4 Length Hex Head Cap Screw   | 40       | 14-52040 | Compression Nut    |
| 11       | 8-220383          | Coupling Nipple                                               |          |           |                                           |          |          |                    |
| 12       | 1-221668          | Idler Pulley                                                  | 26       | 35-50361  | 5/16-18 X 1" Length Hex Head Cap Screw    |          |          |                    |
| 13       | 1-224019          | Coupling                                                      | 27       | 36-50361  | 5/16-18 X 1-1/4 Length Hex Head Cap Screw |          |          |                    |
| 14       | <u>Vent Tubes</u> |                                                               | 28       | 67-50361  | 3/8-16 X 1-1/2 Length Hex Head Cap Screw  |          |          |                    |
|          | 1-228628          | Low Profile (30" FP 1 & 2, 45" FP 1 & 3, 60" FP 1 & 4.)       | 29       | 297-50361 | 3/8-16 x 1-1/8 Length Hex Head Cap Screw  |          |          |                    |
|          | 1-418234          | Low Profile (45" FP 2, 60" FP 2 & 3.)                         | 30       | 117-50560 | 1-1/2 X 1-3/4 Length Pipe                 |          |          |                    |
|          | 1-419614          | High Hose (30" FP 1 & 2, 45" FP 1 & 3, 60" FP 1 & 4.)         | 31       | 03-50611  | 5/16 Plate Washer                         |          |          |                    |
|          | 1-419615          | High Hose (45" FP 2, 60" FP 2 & 3.)                           | 32       | 14-50641  | 5/16 Lockwasher                           |          |          |                    |
| 15       | 37277-16          | Idler Arm & Pulley Assy. (includes item #10, 12, 23, 28 & 33) | 33       | 15-50641  | 3/8 Lockwasher                            |          |          |                    |
| 16       | 1-38403           | Pump Inlet Connection                                         |          |           |                                           |          |          |                    |

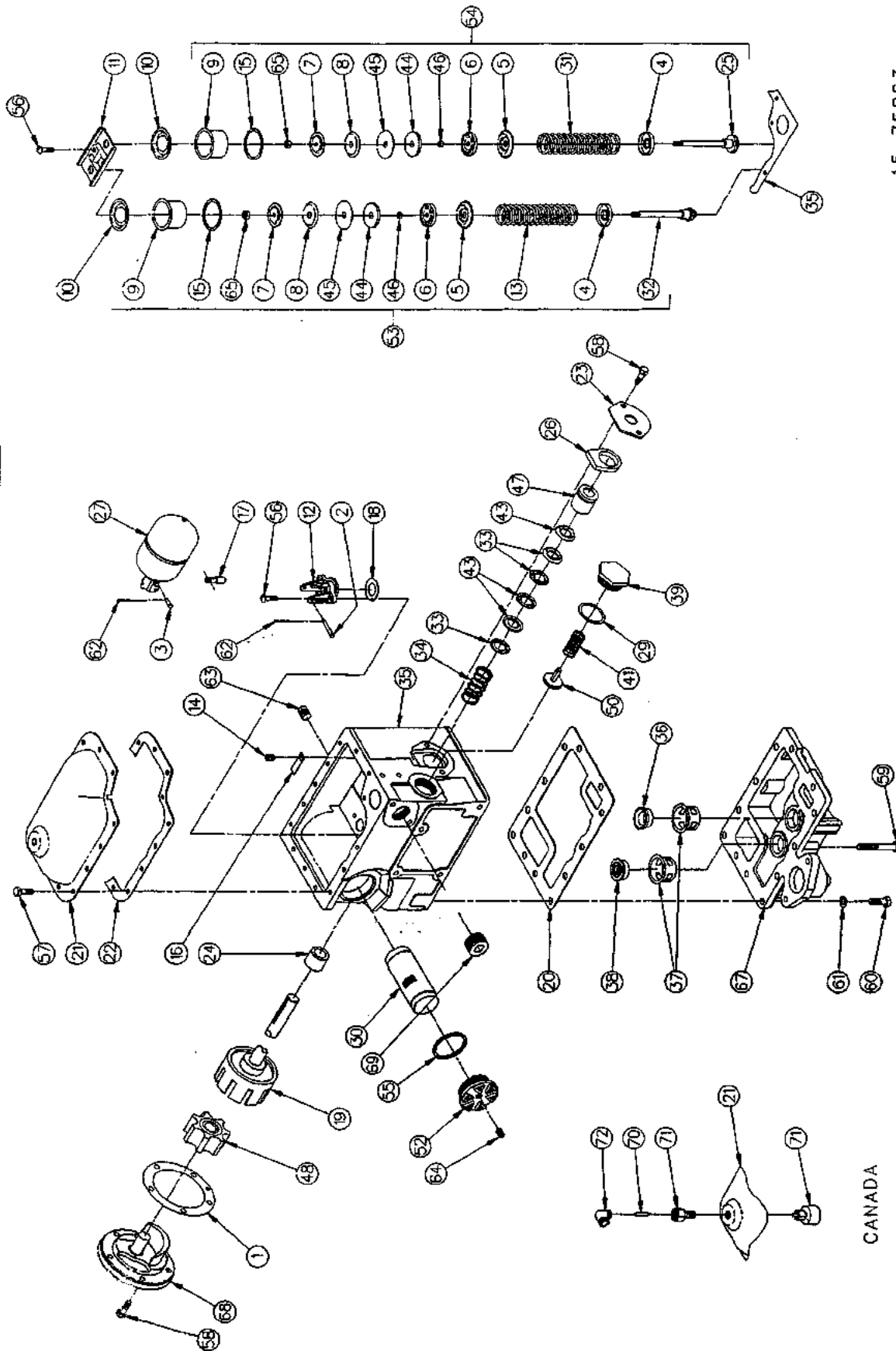
## NOTE:

- Order: 418203-1 for complete Pump & Inlet Assy. (includes pump support plate 1-418168) (30" FP 1 & 2, 45" FP 1 & 3, 60" FP 1 & 4)
- Order 418203-2 for complete Pump & Inlet Assy. (includes pump support plate 1-418170) (60" FP 2 & 3)
- Order 418203-3 for complete Pump & Inlet Assy. (includes pump support plate 1-418169) (45" FP 2)

FP = Fuel Point

1-741385

# ROTARY PUMP & AIR SEPARATOR



15-75063

CANADA



# ROTARY PUMP & AIR SEPARATOR

| ITEM NO. | PART NO.                    | DESCRIPTION                               | ITEM NO. | PART NO.              | DESCRIPTION                                                        | ITEM NO. | PART NO.                     | DESCRIPTION                                      |
|----------|-----------------------------|-------------------------------------------|----------|-----------------------|--------------------------------------------------------------------|----------|------------------------------|--------------------------------------------------|
| 1        | 1-17526                     | Gasket                                    | 21       | 1-32089               | Separator Cover                                                    | 39       | 2-120731                     | Check Valve Cap                                  |
| 2        | 1-18654                     | Float Lever Pin                           | 22       | 2-113691              | Cover Gasket                                                       | 41       | 1-120733                     | Poppet Spring                                    |
| 3        | 1-18655                     | Valve Pin                                 | 23       | 1-113698              | Retainer                                                           | 43       | 1-121394                     | "V" Packing                                      |
| 4        | 1-18716                     | Guide Plate                               | 24       | 1-113703              | Bearing                                                            | 44       | 1-126295                     | Plunger Guide                                    |
| 5        | 1-18717                     | Spring Plate                              | 25       | 113776-1              | Regulating Poppet Assembly                                         | 45       | 1-126343                     | Plunger Disc                                     |
| 6        | 1-18718                     | Plunger Head                              | 26       | 1-113819              | Oil Well Felt                                                      | 46       | 1-126344                     | Plunger Spacer                                   |
| 7        | 1-18719                     | Plunger Plate                             | 27       | 114064-1              | Float Assembly                                                     | 47       | 1-210024                     | Drive Shaft Bearing                              |
| 8        | 1-18720                     | Plunger Follower                          | 29       | 21-313235             | Gasket                                                             | 48       | 1-211816                     | Rotary Pump Idler                                |
| 9        | 1-18721                     | Valve Cylinder                            |          |                       |                                                                    | 50       | 213168-1                     | Poppet Disc & Relief Valve Assembly              |
| 10       | 1-18722                     | Cylinder Head                             | 30       | <u>Suction Screen</u> |                                                                    |          |                              |                                                  |
| 11       | 1-18731                     | Clamp Plate                               |          | 1-115075              | Gasoline                                                           | 52       | <u>Suction Strainer Cap</u>  |                                                  |
| 12       | 1-18734                     | Float Valve Body                          |          | 2-115075              | Diesel                                                             |          | 1-232289                     | 855-BB & 855-DD                                  |
| 13       | <u>By-Pass Valve Spring</u> |                                           |          |                       |                                                                    |          | 2-215030                     | 855-CC                                           |
|          | 1-18735                     | (34# To 35-1/2# Spring) (855-BB & 855-CC) | 31       | 1-115642              | Regulating Valve Spring                                            | 53       | <u>By-Pass Valve Assmely</u> |                                                  |
|          | 1-131178                    | (44-1/2# Spring) (855-DD & 855-BB)        | 32       | 1-116628              | By-Pass Valve Poppet                                               |          | 217897-2                     | 34# To 35-1/2# Spring (855-BB & 855-CC)          |
| 14       | 1-18750                     | Vent Screw                                | 33       | 1-117475              | Packing Gland                                                      |          | 217897-6                     | 44-1/2# Spring (855-DD & 855-BB)                 |
| 15       | 1-18792                     | Valve Cylinder Gasket                     | 34       | 1-117660              | Packing Spring                                                     | 54       | 217898-2                     | Regulating Valve Assembly                        |
| 16       | 1-18799                     | Vent Screw Guard                          | 35       | 118335-1              | Rotary Pump & Separator Body With Gasket, Bearing, Screws & Spring | 55       | 2-313235                     | Gasket                                           |
| 17       | 1-18860                     | Float Valve Needle                        | 36       | 1-118590              | Regulating Valve Seat                                              | 56       | 403-54921                    | 1/4-20 x 1" Long Phillips Pan Head Machine Screw |
| 18       | 1-18961                     | Float Valve Gasket                        | 37       | 1-118591              | Valve Seat Guide                                                   |          |                              |                                                  |
| 19       | 25664-1                     | Pump Rotor Shaft Assembly                 | 38       | 1-118640              | By-Pass Valve Seat                                                 |          |                              |                                                  |
| 20       | 1-25879                     | Bottom Head Gasket                        |          |                       |                                                                    |          |                              |                                                  |

# ROTARY PUMP & AIR SEPARATOR - Continued

| ITEM NO. | PART NO.                                                              | DESCRIPTION                             | ITEM NO. | PART NO. | DESCRIPTION               | ITEM NO.                                                   | PART NO. | DESCRIPTION                                                                                                                               |
|----------|-----------------------------------------------------------------------|-----------------------------------------|----------|----------|---------------------------|------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 57       | 01-50360                                                              | 1/4-20 x 1/2" Long Hex Head Cap Screw   | 68       | 211818-1 | Rotary Pump Head Assembly | <u>For complete Rotary Pump &amp; Air Separator order:</u> |          |                                                                                                                                           |
| 58       | 34-50360                                                              | 5/16-18 x 7/8" Long Hex Head Cap Screw  | 69       | 27-51901 | 1" Pipe Plug (855-CC)     |                                                            |          |                                                                                                                                           |
| 59       | 72-50360                                                              | 3/8-16 x 2-3/4" Long Hex Head Cap Screw | 70       | 1-132735 | Valve Stem                | 405952-39                                                  |          | 855-BB (162, 162-1-TW, 1248/50A, 1248/50A-1-TW, 1248/50AS, 785, 785MC, 785-1-TW, 262 & 262-1-TW, 311, 312, 322, 324, 413, 426, 614 & 628) |
| 60       | 297-50360                                                             | 3/8-16 x 1-1/8" Long Hex Head Cap Screw | 71       | 1-232164 | Float Assembly            | 405952-40                                                  |          | 855-CC (162-2-TW, 1248/50A-2-TW, 785-2-TW, 262-2-TW)                                                                                      |
| 61       | 15-50641                                                              | 3/8" Lockwasher (855-CC)                | 72       | 05-52020 | 3/8" Tube 90° Elbow       | 405952-42                                                  |          | 855-DD (162-HC, 1248/50A-HS, 1248/50AS-HS & 785-HC)                                                                                       |
| 62       | 17-51210                                                              | 1/16" Dia x 1/2" Long Cotter Pin        |          |          |                           | 405952-43                                                  |          | 855-BB (1248/50AS-HD)                                                                                                                     |
| 63       | 02-51911                                                              | 1/4" Square Head Pipe Plug              |          |          |                           |                                                            |          |                                                                                                                                           |
| 64       | 38-51911                                                              | 1/4" Countersunk Pipe Plug              |          |          |                           |                                                            |          |                                                                                                                                           |
| 65       | 01-52321                                                              | 1/4-28 Hex Nut                          |          |          |                           |                                                            |          |                                                                                                                                           |
| 67       | <u>Lower Pump Head With Valve Seat Guides. Regulating Valve Seat.</u> |                                         |          |          |                           |                                                            |          |                                                                                                                                           |
|          | 408143-1                                                              | 855-BB                                  |          |          |                           |                                                            |          |                                                                                                                                           |
|          | 408143-2                                                              | 855-CC                                  |          |          |                           |                                                            |          |                                                                                                                                           |
|          | 408143-4                                                              | 855-DD                                  |          |          |                           |                                                            |          |                                                                                                                                           |

15-75063