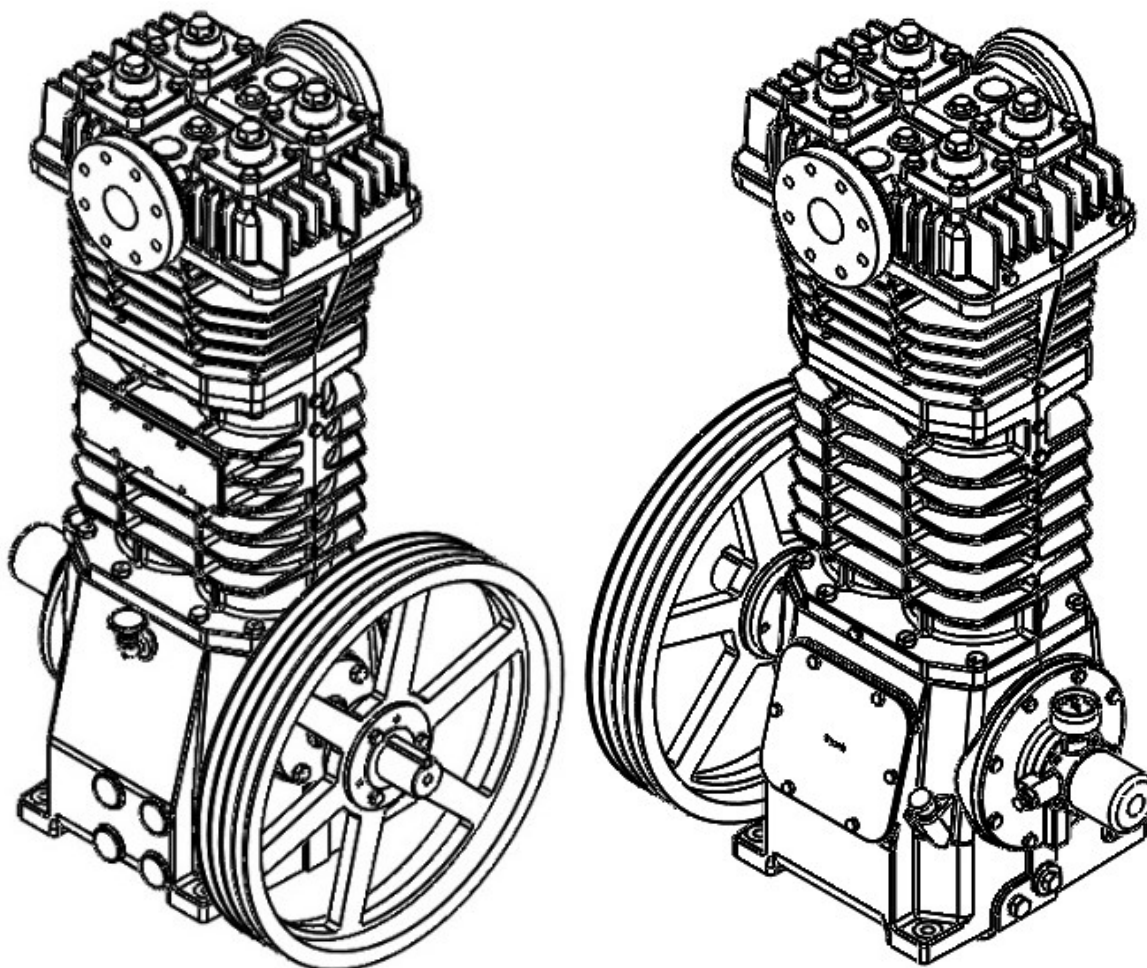


## NGS642E PARTS LIST

Serial # \_\_\_\_\_

ID# \_\_\_\_\_



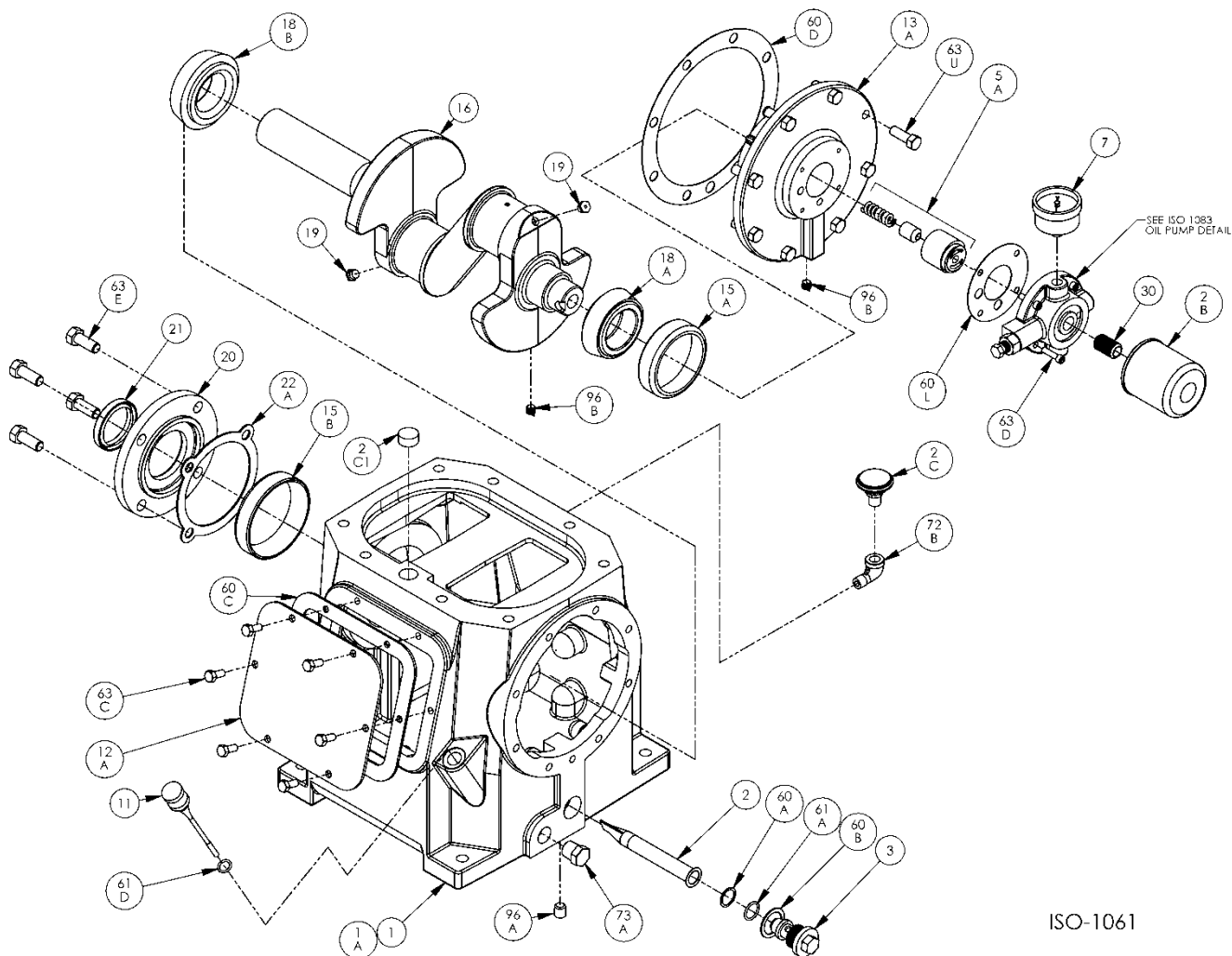
### Gasket Set, Repair Kits and Special Tools

|                                  |            |        |
|----------------------------------|------------|--------|
| Gasket Set                       | FKM & Iron | 794595 |
| Packing Installation Tool        |            | 790538 |
| Valve Hold Down Screw Tool       |            | 798016 |
| Spanner Wrench, 1/4" Adjustable  |            | 790316 |
| Wrench for Valve Hold Down Screw |            | 790535 |
| Piston Tool                      |            | 798005 |
| Tool Kit                         |            | 790199 |

## Suggested Spares

| Part #                                                                             | Description                 | Qty./<br>Unit | Comm.<br>Qty. | Spare<br>Qty. |
|------------------------------------------------------------------------------------|-----------------------------|---------------|---------------|---------------|
| 794595                                                                             | Gasket Set - FKM, Iron      | 1             | 1             | 1             |
| 793659                                                                             | Suction Valve               | 2             |               | 2             |
| 793660                                                                             | Repair Kit, Suction Valve   |               | 1             |               |
| 793679                                                                             | Discharge Valve             | 2             |               | 2             |
| 793660                                                                             | Repair Kit, Suction Valve   |               | 1             |               |
| 794611                                                                             | Piston Ring                 | 6             | 6             | 6             |
| 794615                                                                             | Piston Ring Expander        | 6             | 6             | 6             |
| 794498                                                                             | Packing Set                 | 4             | 4             | 4             |
| 794726                                                                             | Oil Filter                  | 1             |               | 6             |
| 794727                                                                             | Wrist Pin                   | 2             |               | 2             |
| 794776                                                                             | Wrist Pin Roller Bearing    | 4             | 4             | 4             |
| 794710                                                                             | Conrod Bearing              | 2             | 2             | 2             |
| The following parts would normally be required only for major compressor overhaul. |                             |               |               |               |
| 794730                                                                             | Inboard Bearing Cone        | 1             |               | 1             |
| 794731                                                                             | Inboard Bearing Cup         | 1             |               | 1             |
| 794130                                                                             | Outboard Bearing Cone       | 1             |               | 1             |
| 794131                                                                             | Outboard Bearing Cup        | 1             |               | 1             |
| 794523                                                                             | Crosshead Assembly          | 2             |               | 1             |
| 794767                                                                             | Conrod Assembly             | 2             |               | 1             |
| 794456                                                                             | S3R Seal                    | 2             |               | 2             |
| 794760                                                                             | Oil Pump Repair Kit         | 1             |               |               |
| 794708                                                                             | Crankshaft Assembly         | 1             |               |               |
| 794733                                                                             | Bearing Adjustment Shim Kit | 1             |               |               |
| 794153                                                                             | Cylinder                    | 1             |               |               |





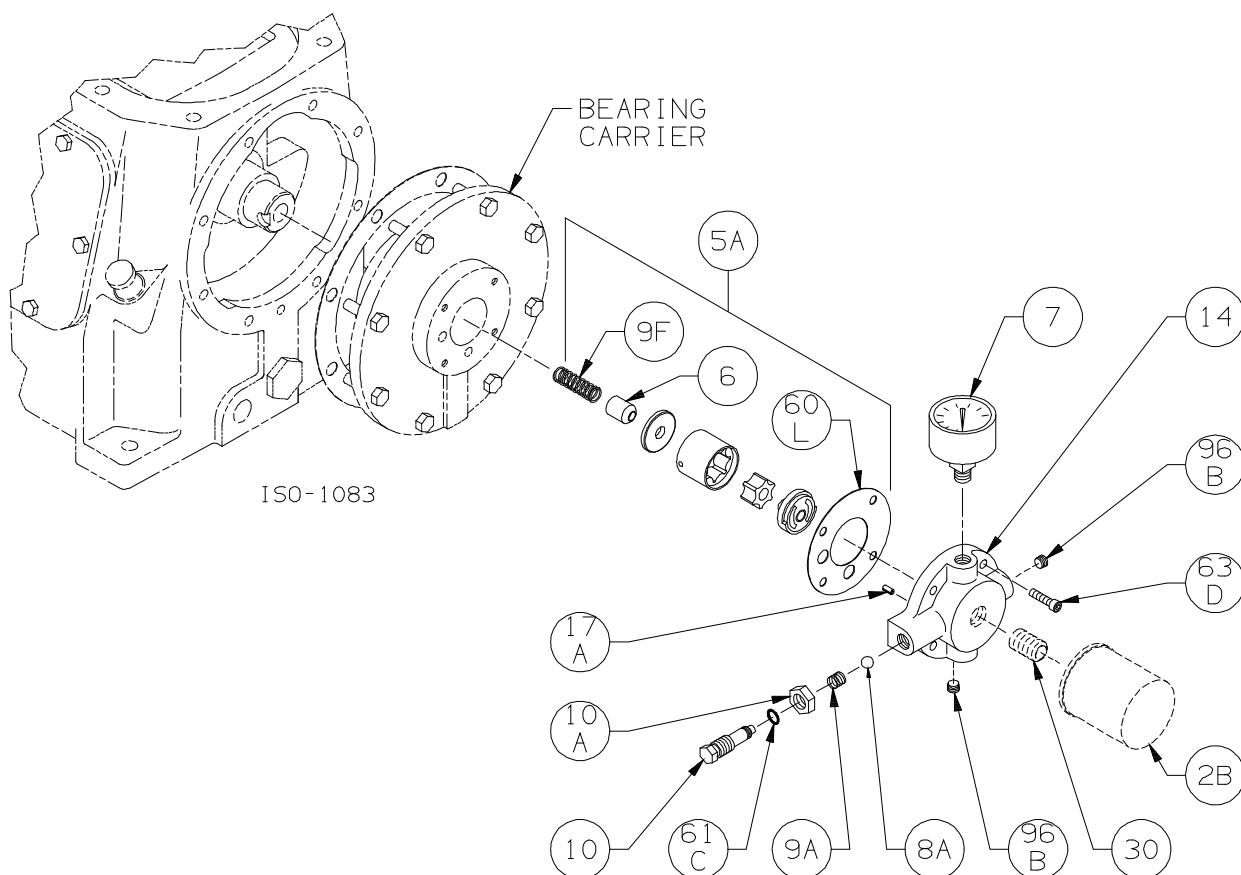
ISO-1061

## Crankcase

| Ref | Description                         | Qty | Part No |
|-----|-------------------------------------|-----|---------|
| 1   | Crankcase Assembly                  | 1   | 794758  |
| 1A  | Crankcase                           | 1   | 794709  |
| 2   | Oil Intake Screen                   | 1   | 792135  |
| 2B  | Oil Filter                          | 1   | 794726  |
| 2C  | Breather Filter (current)           | 1   | 792070  |
| 2C1 | Breather Filter (Previous Style)    |     | 794752  |
| 3   | Oil Screen Plug                     | 1   | 792145  |
| 5A  | Oil Pump Kit                        | 1   | 794760  |
| 7   | Oil Pressure Gauge                  | 1   | 790012  |
| 11  | Oil Bayonet Assembly                | 1   | 792162  |
| 12A | Inspection Plate                    | 1   | 794140  |
| 13A | Bearing Carrier                     | 1   | 794714  |
| 15A | Bearing Cup (Outboard)              | 1   | 794131  |
| 15B | Bearing Cup (Inboard)               | 1   | 794731  |
| 16  | Crankshaft Assy (w\ 18A,18B,19,96B) | 1   | 794708  |
| 18A | Bearing Cone (Outboard)             | 1   | 794130  |
| 18B | Bearing Cone (Inboard)              | 1   | 794730  |
| 19  | Orifice                             | 2   | 792146  |
| 20  | Bearing Cover Plate                 | 1   | 794716  |

| Ref | Description                    | Qty | Part No |
|-----|--------------------------------|-----|---------|
| 21  | Oil Seal                       | 1   | 794732  |
| 22A | Bearing Adjustment Shim Kit    | 1   | 794733  |
| 30  | Oil Filter Fitting             | 1   | 794725  |
| 60A | Gasket - Oil Screen *          | 1   | 792136  |
| 60B | Gasket - Oil Screen Plug *     | 1   | 792123  |
| 60C | Gasket - Inspection Plate *    | 1   | 794122  |
| 60D | Gasket - Bearing Carrier Assy* | 1   | 794720  |
| 60L | Gasket - Oil Pump Cover *      | 1   | 794721  |
| 61A | O-Ring - Oil Screen *          | 1   | 792175  |
| 61D | O-Ring - Oil Bayonet *         | 1   | 792174  |
| 63C | Capscrew - Hex Hd              | 6   | 793116  |
| 63D | Capscrew - Soc Hd              | 4   | 790559  |
| 63E | Capscrew - Hex Hd              | 4   | 790484  |
| 63U | Capscrew - Hex Hd              | 8   | 792093  |
| 72B | Elbow                          | 1   | 790453  |
| 73A | Pipe Plug                      | 1   | 790024  |
| 96A | Pipe Plug                      | 1   | 790488  |
| 96B | Pipe Plug                      | 2   | 790309  |

\* Included in Gasket Sets



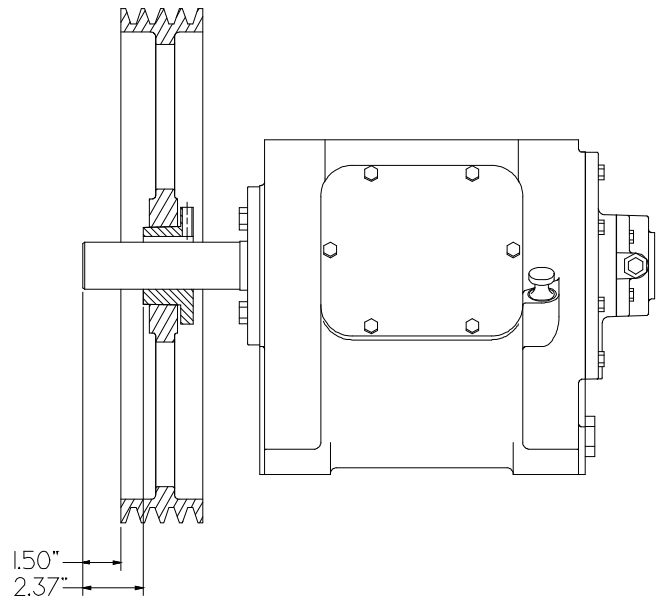
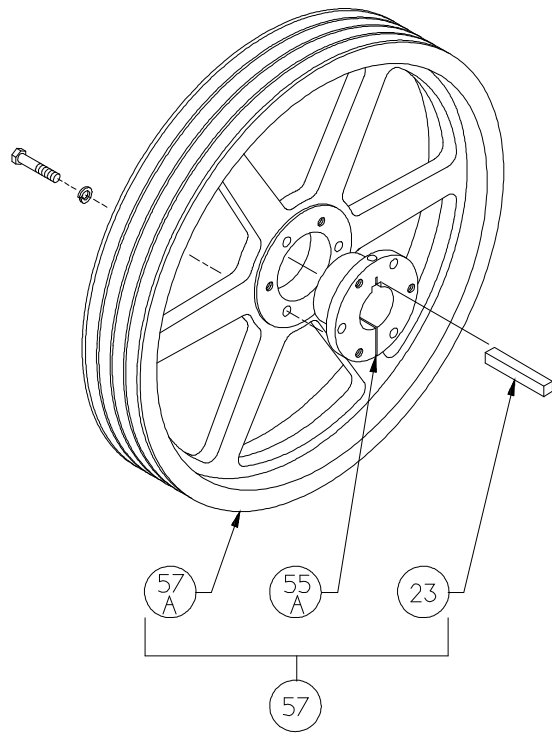
#### Oil Pump

| Ref | Description                    | Qty | Part No |
|-----|--------------------------------|-----|---------|
| 2B  | Oil Filter                     | 1   | 794726  |
| 5A  | Oil Pump Kit (with 6, 9F, 60L) |     | 794760  |
| 6   | Oil Pump Cone                  | 1   | 794750  |
| 7   | Oil Pressure Gauge             | 1   | 790012  |
| 8A  | Oil Pressure Adj. Ball         | 1   | 792154  |
| 9A  | Oil Pressure Adj. Spring       | 1   | 792153  |
| 9F  | Oil Pump Spring                | 1   | 794751  |
| 10  | Oil Pressure Adj. Screw        | 1   | 792148  |
| 10A | Locknut                        | 1   | 792152  |

#### ISO1083

| Ref | Description                                    | Qty | Part No |
|-----|------------------------------------------------|-----|---------|
| 14  | Oil Pump Cover Assembly - For Filter           | 1   | 794764  |
|     | Oil Pump Cover Assembly<br>(includes 17A, 96B) |     | 794763  |
| 17A | Roll Pin                                       | 1   | 794753  |
| 30  | Oil Filter Fitting                             | 1   | 794725  |
| 60L | Gasket - Oil Pump Cover *                      | 1   | 794721  |
| 61C | O-Ring - Adjusting Screw *                     | 1   | 792168  |
| 63D | Capscrew - Socket Head                         | 4   | 790559  |
| 96B | Pipe Plug                                      | 2   | 790309  |

\* Included in Gasket Sets

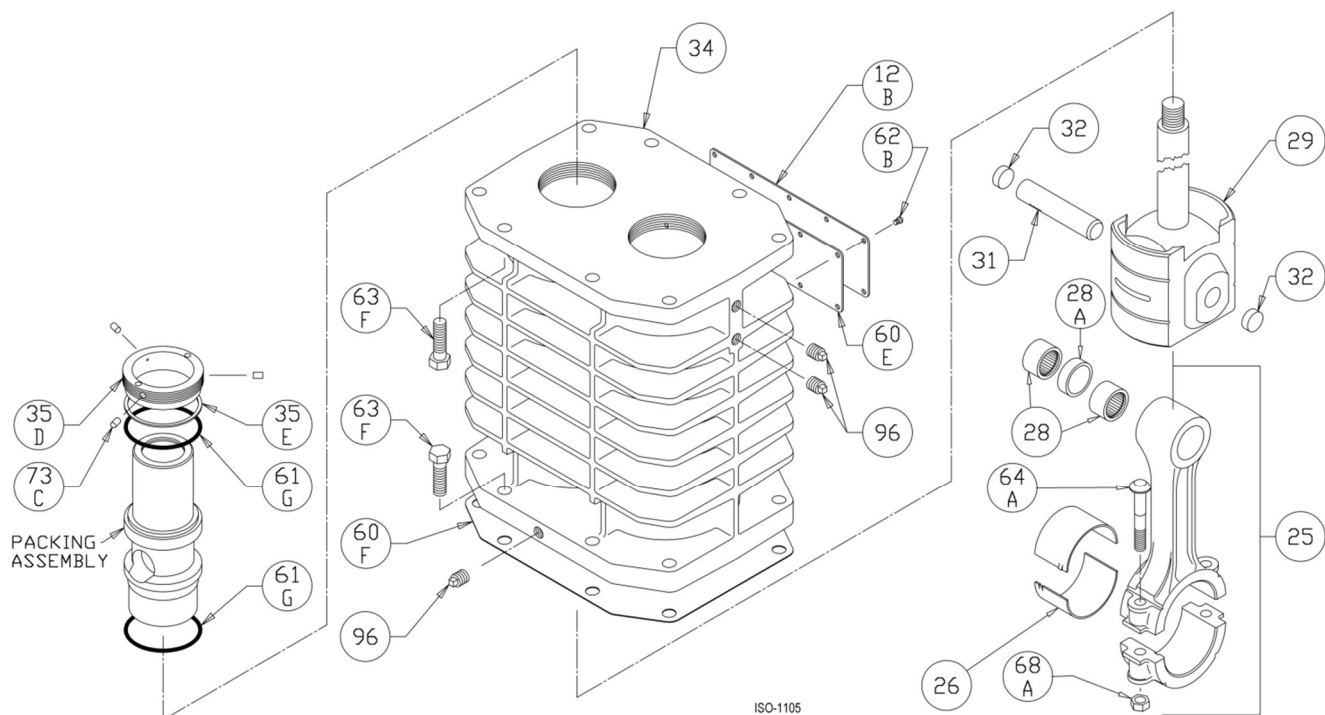


ISO-1084

#### Flywheel

ISO1084

| Ref | Description       | Qty | Part No |
|-----|-------------------|-----|---------|
| 23  | Key               | 1   | 794267  |
| 55A | Hub               | 1   | 790149  |
| 57  | Flywheel Assembly | 1   | 794132  |
| 57A | Flywheel          | 1   | 790545  |



## Crosshead

| Ref | Description                              | Qty | Part No |
|-----|------------------------------------------|-----|---------|
| 12B | Inspection Plate                         | 1   | 794093  |
| 25  | Connecting Rod Assembly                  | 2   | 794767  |
| 26  | Connecting Rod Bearing                   | 2   | 794710  |
| 28  | Wrist Pin Roller Bearing                 | 4   | 794776  |
| 28A | Bearing Spacer                           | 2   | 794770  |
| 29  | Crosshead Assembly<br>(top marked '90k') | 2   | 794523  |
| 31  | Wrist Pin                                | 2   | 794727  |
| 32  | Wrist Pin Plug                           | 4   | 794724  |
| 34  | Crosshead Guide                          | 1   | 794430  |
| 35D | Hold-down Ring                           | 2   | 794220  |

## ISO1105

| Ref | Description                         | Qty | Part No |
|-----|-------------------------------------|-----|---------|
| 35E | Spacer Ring                         | 2   | 794403  |
| 60E | Gasket - Inspection Plate *         | 1   | 794092  |
| 60F | Gasket - Crankcase *                | 1   | 794121  |
| 61G | O-Ring (FKM) *                      | 4   | 794213  |
| 62B | Machine Screw - Inspection Plate    | 10  | 793096  |
| 63F | Capscrew - Hex Hd – Stainless Steel | 16  | 801185  |
| 64A | Connecting Rod Bolt                 | 4   | 794012  |
| 68A | Connecting Rod Bolt Nut             | 4   | 794013  |
| 72A | Elbow - Vent                        | 1   | 790453  |
| 73C | Lock Plug *                         | 6   | 794028  |
| 96  | Pipe Plug                           | 4   | 793498  |

\*Included in Gasket Sets

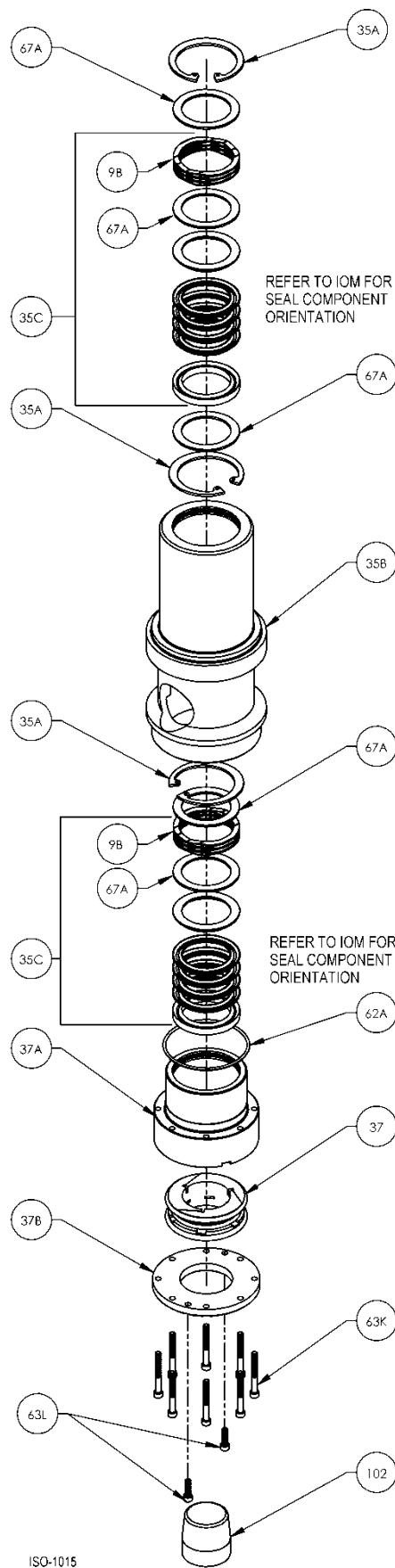


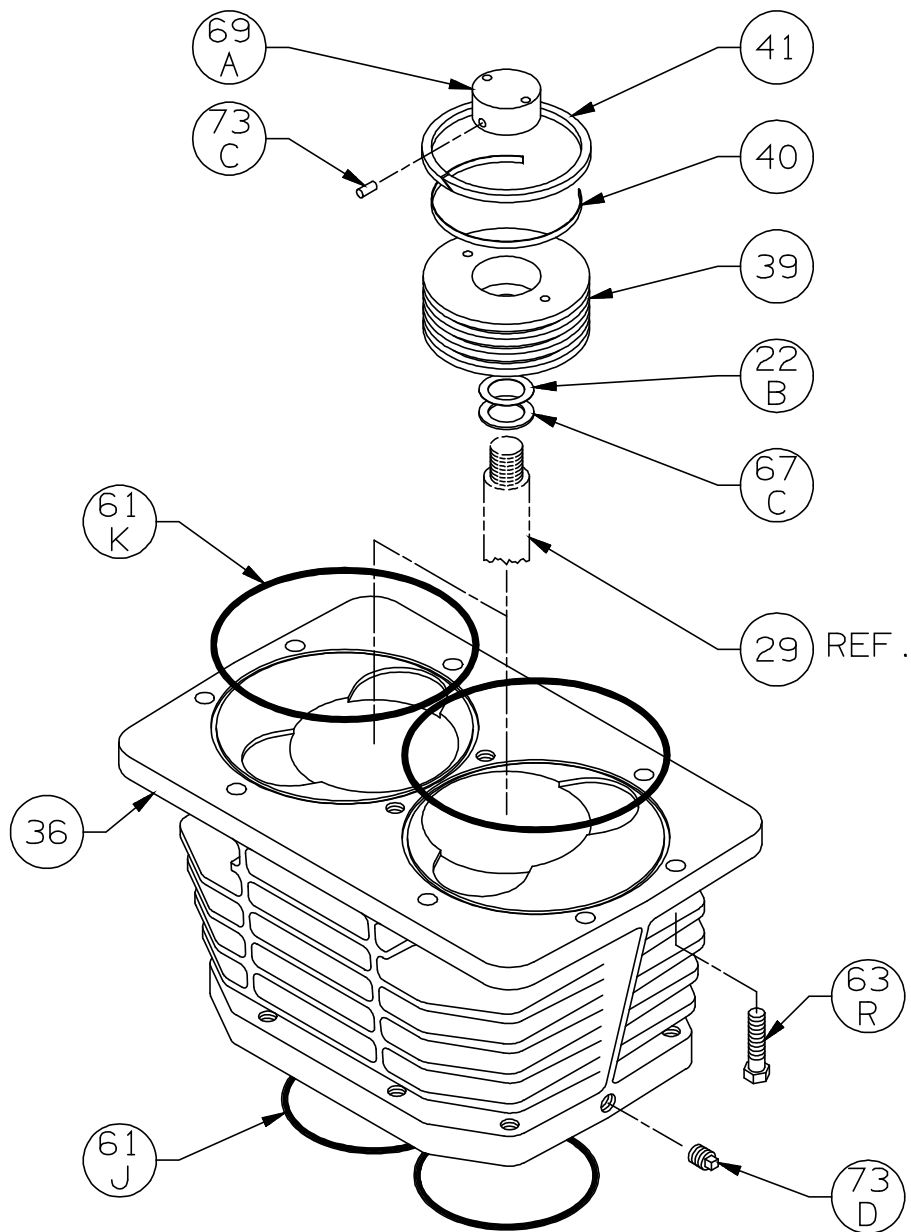
## Packing

| Ref | Description                      | Qty | Part No |
|-----|----------------------------------|-----|---------|
| 9B  | Packing Spring – Stainless Steel | 4   | 794041  |
| 35A | Retainer Ring – Stainless Steel  | 6   | 794511  |
| 35B | Packing Box (top marked '1018')  | 2   | 794445  |
| 35C | Packing Set                      | 4   | 794498  |
| 37  | S3R Seal                         | 2   | 794456  |
| 37A | Seal Cup                         | 2   | 794455  |
| 37B | Seal Cup Cover                   | 2   | 794454  |
| 62A | O-Ring (FKM) *                   | 2   | 792313  |
| 63K | Capscrew – Socket Head – SS      | 16  | 794464  |
| 63L | Capscrew – Socket Head – SS      | 4   | 794465  |
| 67A | Washer - Packing Box             | 10  | 794084  |
| 102 | Packing Installation Tool        | 1   | 790538  |

\* Included in gasket sets.

Refer to the Compressor IOM for proper orientation of components.





ISO-1021

#### Cylinder

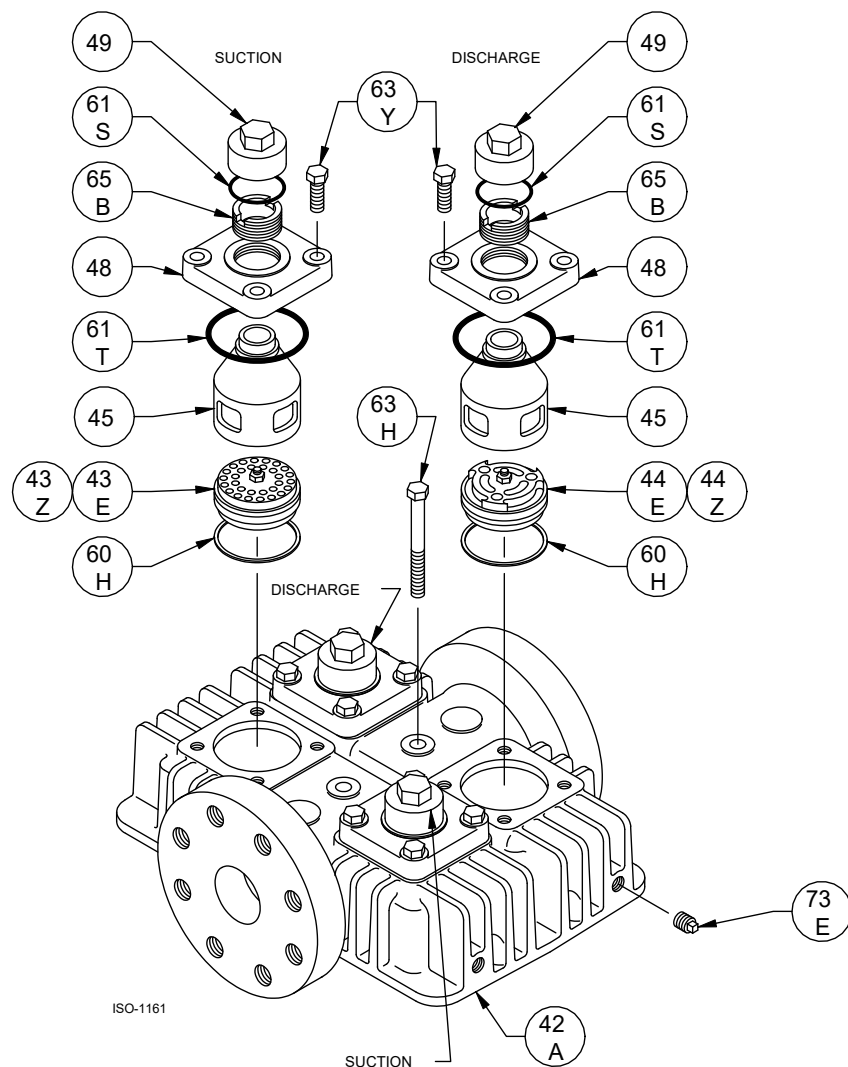
| Ref | Description          | Qty | Part No |
|-----|----------------------|-----|---------|
| 22B | Piston Shim - 0.015" | AR  | 794434  |
|     | Piston Shim - 0.007" | AR  | 794436  |
| 36  | Cylinder             | 1   | 794153  |
| 39  | Piston               | 2   | 794508  |
| 40  | Expander             | 6   | 794615  |
| 41  | Piston Ring          | 6   | 794611  |
| 61J | O-Ring (FKM) *       | 2   | 794214  |

#### ISO1021

| Ref | Description                         | Qty | Part No |
|-----|-------------------------------------|-----|---------|
| 61K | O-Ring (FKM) *                      | 2   | 794106  |
| 63R | Capscrew - Hex Hd – Stainless Steel | 8   | 793150  |
| 67C | Thrust Washer                       | 2   | 794433  |
| 69A | Piston Nut                          | 2   | 794422  |
| 73C | Lock Plug *                         | 4   | 794222  |
| 73D | Pipe Plug                           | 1   | 793498  |

\* Included in Gasket Sets





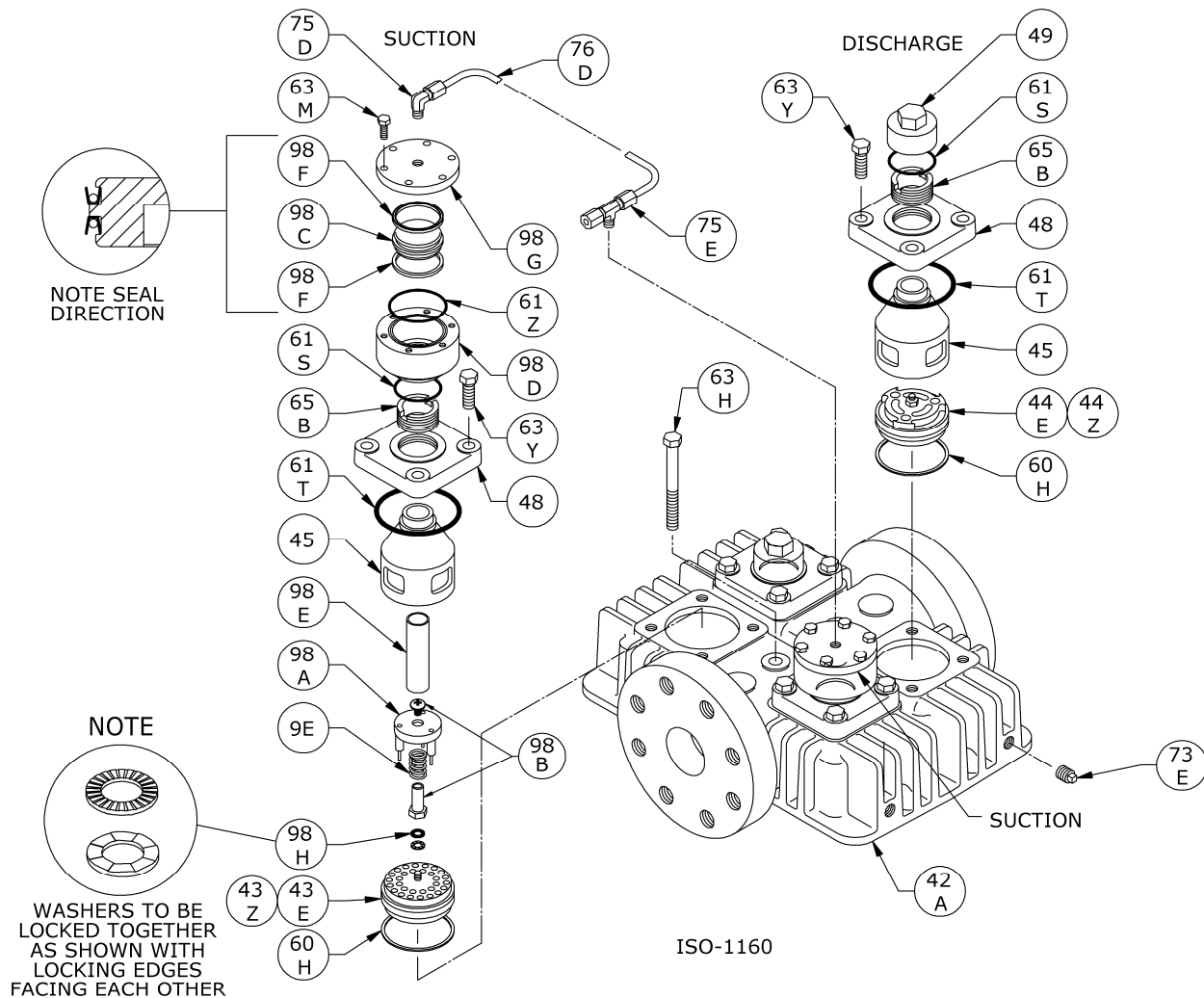
#### Head

| Ref | Description                          | Qty | Part No |
|-----|--------------------------------------|-----|---------|
| 42A | Head (ANSI Flanges)                  | 1   | 794100  |
| 43E | Suction Valve Assembly               | 2   | 793659  |
|     | Suction Valve Assy, Stainless Steel  |     | 793629  |
| 43Z | Valve Repair Kit - for 793659/793679 |     | 793660  |
|     | Valve Repair Kit - for 793629        |     | 793630  |
| 44E | Discharge Valve Assembly             | 2   | 793679  |
|     | Discharge Valve Assy, Stainless Stl  |     | 793649  |
| 44Z | Valve Repair Kit - for 793659/793679 |     | 793660  |
|     | Valve Repair Kit - for 793649        |     | 793650  |
| 45  | Cage                                 | 4   | 794620  |

#### ISO1161

| Ref | Description                | Qty | Part No |
|-----|----------------------------|-----|---------|
| 48  | Valve Cover Plate          | 4   | 794284  |
| 49  | Valve Cap                  | 4   | 792003  |
| 60H | Gasket - Valve *           | 4   | 794198  |
| 61S | O-Ring (FKM) *             | 4   | 792308  |
| 61T | O-Ring (FKM) *             | 4   | 792213  |
| 63H | Capscrew - Stainless Steel | 2   | 920588  |
| 63Y | Capscrew - Stainless Steel | 16  | 793153  |
| 65B | Valve Holddown Screw       | 4   | 792002  |
| 73E | Pipe Plug                  | 2   | 793498  |

\* Included in Gasket Sets



Head Assembly with Unloaders: HD601B|A, HD602C|B|A, HD603C|B|A

ISO1160

| Ref | Description                           | Qty | Part No |
|-----|---------------------------------------|-----|---------|
| 9E  | Unloader Spring                       | 2   | 793293  |
| 42A | Head (ANSI Flanges)                   | 1   | 794100  |
| 43E | Suction Valve Assembly                | 2   | 793659  |
|     | Suction Valve Assy, Stainless Steel   |     | 793629  |
| 43Z | Valve Repair Kit - For 793659/793679  |     | 793660  |
|     | Valve Repair Kit - For 793629         |     | 793630  |
| 44E | Discharge Valve Assembly              | 2   | 793679  |
|     | Discharge Valve Assy, Stainless Steel |     | 793649  |
| 44Z | Valve Repair Kit - For 793659/793679  |     | 793660  |
|     | Valve Repair Kit - For 793649         |     | 793650  |
| 45  | Cage                                  | 4   | 794620  |
| 48  | Valve Cover Plate                     | 4   | 794284  |
| 49  | Valve Cap                             | 2   | 792003  |
| 60H | Gasket - Valve *                      | 4   | 794198  |
| 61S | O-Ring (FKM) *                        | 4   | 792308  |
| 61T | O-Ring (FKM) *                        | 4   | 792213  |
| 61Z | O-Ring (FKM) *                        | 2   | 792313  |
| 63H | Capscrew - Stainless Steel            | 2   | 920588  |

| Ref | Description                                      | Qty | Part No |
|-----|--------------------------------------------------|-----|---------|
| 63M | Capscrew - Hex Hd                                | 12  | 790053  |
| 63Y | Capscrew - Stainless Steel                       | 16  | 793153  |
| 65B | Valve Holddown Screw                             | 4   | 792002  |
| 73E | Pipe Plug                                        | 2   | 793498  |
| 75D | Tube Elbow                                       | 1   | 790355  |
| 75E | Tube Tee                                         | 1   | 790356  |
| 76D | Tube                                             | 1   | 790192  |
| 98A | Actuator Assembly                                | 2   | 794296  |
|     | Actuator Assembly, for SS Valve                  |     | 794298  |
| 98B | Unloader Post w/bolt <sup>1</sup>                | 2   | 793291  |
|     | Unloader Post w/bolt <sup>1</sup> , for SS Valve |     | 794291  |
| 98C | Unloader Piston                                  | 2   | 793288  |
| 98D | Unloader Body                                    | 2   | 793286  |
| 98E | Unloader Plunger                                 | 2   | 794290  |
| 98F | Unloader Seal                                    | 4   | 792284  |
| 98G | Unloader Cap                                     | 2   | 793287  |
| 98H | Lockwasher (2 piece)                             | 2   | 793473  |

\* Included in Gasket Sets

