

## Air Operated Double Diaphragm Pump

Model: NDP-50FAN  
Model#: 854251



### To Purchase:

☎ 800-990-7867

✉ [sales@yamadapump.com](mailto:sales@yamadapump.com)

📍 [Find My Rep](#)

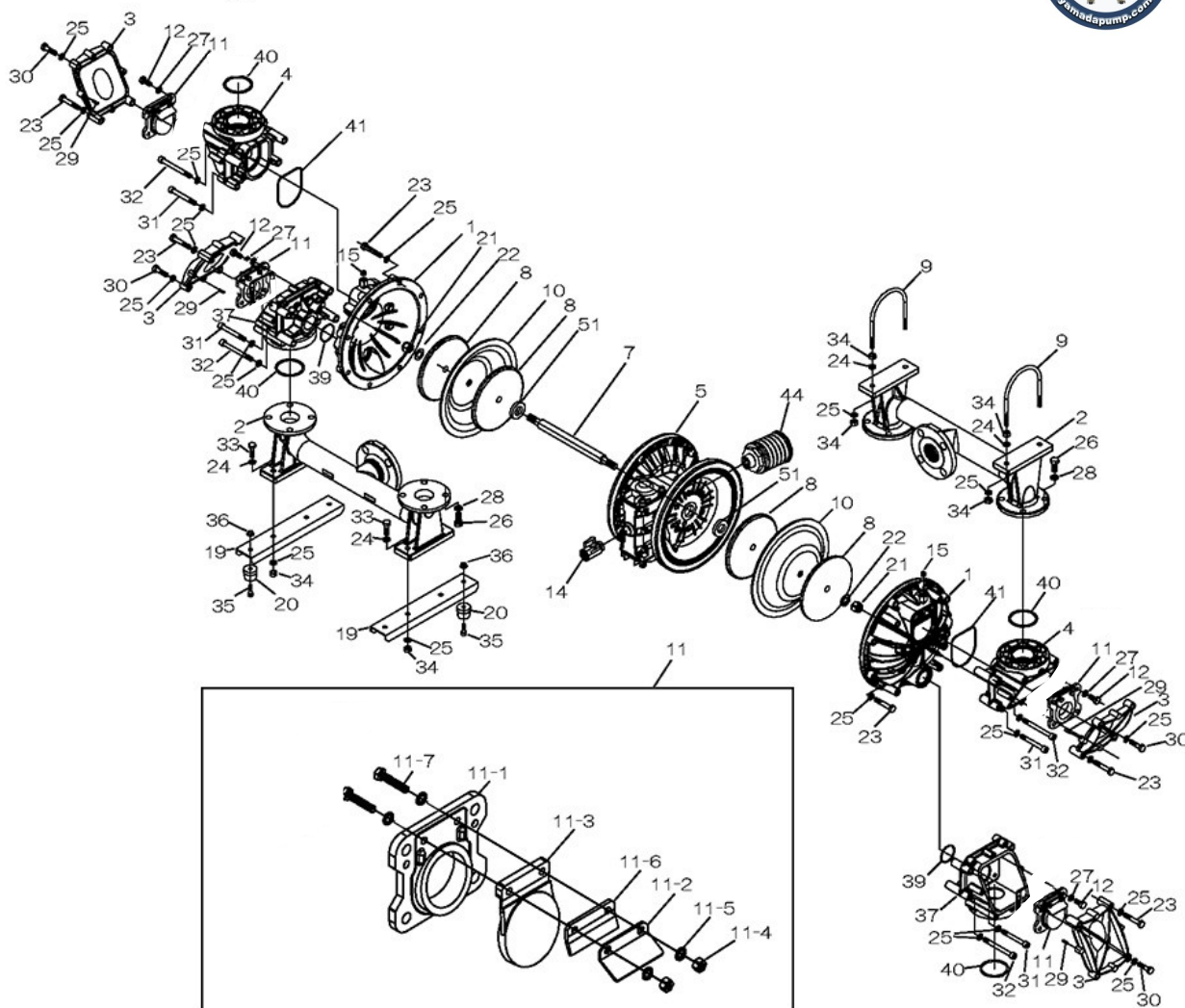
### More Information:

▶ YouTube: [@yamadapump](#)

🌐 [yamadapump.com](http://yamadapump.com)

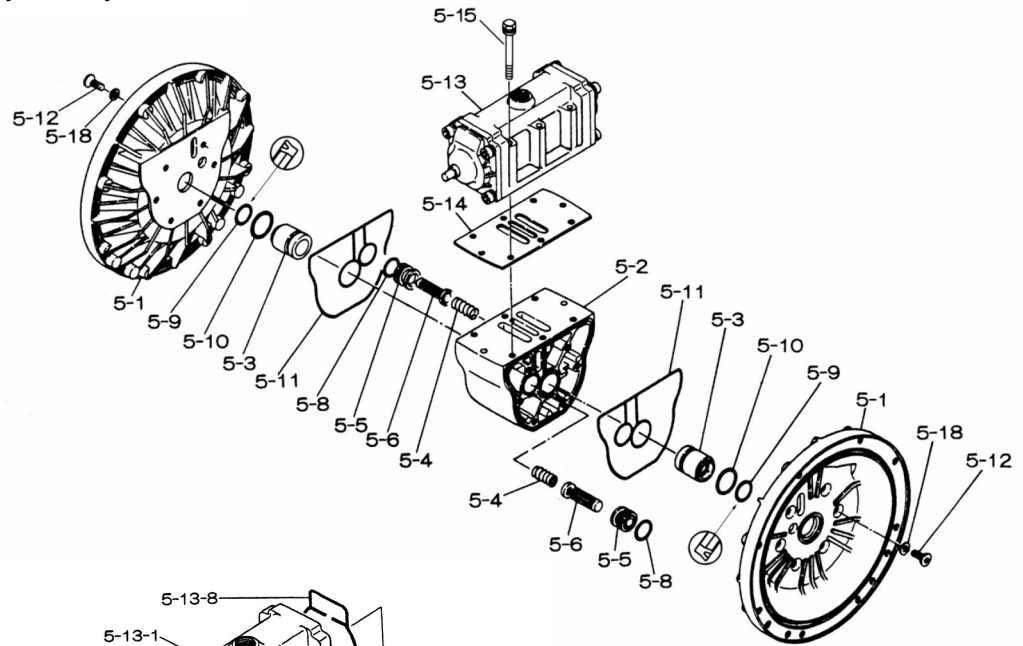
[Data Sheets](#) | [CAD Drawings](#) | [Manuals](#)  
[Literature](#) | [BOM](#) | [Performance Curves](#)

### Trial Program

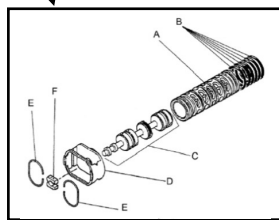
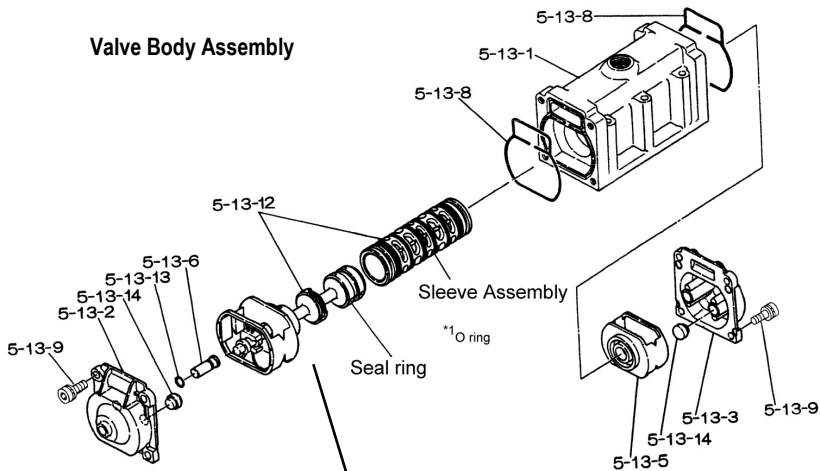


## Air Operated Double Diaphragm Pump

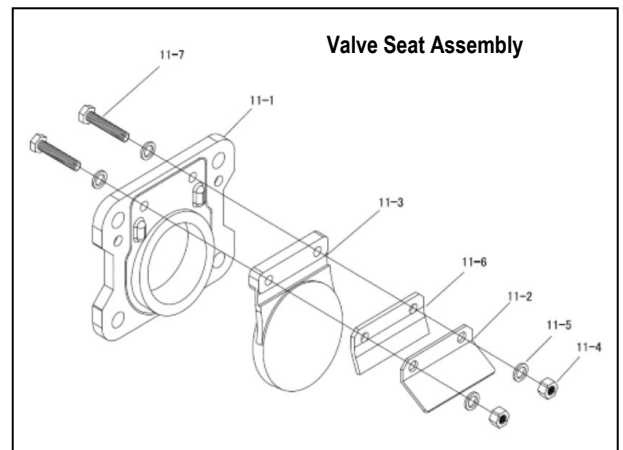
### Center Body Assembly



### Valve Body Assembly



### Valve Seat Assembly



## Air Operated Double Diaphragm Pump

| REF. NO.       | PART NO       | DESCRIPTION                 | QTY.     |
|----------------|---------------|-----------------------------|----------|
| 1              | 716032        | OUT CHAMBER                 | 2        |
| 2              | 715767        | IN MANIFOLD                 | 2        |
| 3              | 795117        | VALVE CASE COVER            | 4        |
| 4              | 716030        | IN VALVE CASE               | 2        |
| <b>5</b>       | <b>804719</b> | <b>CENTER BODY ASSEMBLY</b> | <b>1</b> |
| 5- 1           | 711934        | AIR CHAMBER                 | 2        |
| 5- 2           | 711936        | BODY                        | 1        |
| 5- 3           | 780325        | THROAT BEARING              | 2        |
| 5- 4           | 711937        | PILOT VALVE SPRING          | 2        |
| 5- 5           | 771740        | PILOT VALVE SEAT            | 2        |
| 5- 6           | 832163        | PILOT VALVE ASSEMBLY        | 2        |
| 5- 8           | 640020        | O-RING                      | 2        |
| 5- 9           | 685444        | V-PACKING                   | 2        |
| 5-10           | 640029        | O-RING                      | 2        |
| 5-11           | 771742        | GASKET                      | 2        |
| 5-12           | 683812        | FLAT SOCKET                 | 12       |
| <b>5-13</b>    | <b>802971</b> | <b>VALVE BODY ASSEMBLY</b>  | <b>1</b> |
| 5-13-1         | 711931        | VALVE BODY                  | 1        |
| 5-13-2         | 580999        | CAP A                       | 1        |
| 5-13-3         | 581000        | CAP B                       | 1        |
| 5-13-5         | 771735        | SPRING RETAINER             | 1        |
| 5-13-6         | 712976        | RESET BUTTON                | 1        |
| 5-13-8         | 771738        | GASKET                      | 2        |
| 5-13-9         | 685036        | SOCKET BOLT                 | 8        |
| <b>5-13-12</b> | <b>805084</b> | <b>C-SPOOL ASSEMBLY</b>     | <b>1</b> |
| A              | 803675        | SLEEVE ASSEMBLY             | 1        |
| B              | 640036        | O-RING                      | 6        |
| C              | 805085        | SPOOL ASSY                  | 1        |
| D              | 771735        | SPRING RETAINER             | 1        |
| E              | 711932        | C-SPRING                    | 2        |
| F              | 771734        | BLOCK                       | 1        |
| 5-13-13        | 640005        | O-RING                      | 1        |
| 5-13-14        | 684128        | CUSHION                     | 4        |
| 5-14           | 771712        | GASKET                      | 1        |
| 5-15           | 684240        | BOLT W/WASHERS              | 6        |
| 5-18           | 684987        | WASHER                      | 12       |
| 7              | 711900        | CENTER ROD                  | 1        |
| 8              | 711904        | CENTER DISK                 | 4        |
| 9              | 686099        | U BOLT                      | 2        |
| 10             | 771702        | DIAPHRAGM                   | 2        |
| <b>11</b>      | <b>804841</b> | <b>VALVE SEAT ASSEMBLY</b>  | <b>4</b> |
| 11-1           | 795124        | VALVE SEAT                  | 1        |
| 11-2           | 715765        | VALVE STOPPER               | 1        |
| 11-3           | 795125        | FLAP VALVE                  | 1        |
| 11-4           | 685184        | NUT                         | 2        |
| 11-5           | 631172        | PLAIN WASHER                | 4        |
| 11-6           | 773000        | HINGE PAD                   | 1        |
| 11-7           | 621106        | BOLT                        | 2        |
| 12             | 621173        | BOLT                        | 16       |
| 14             | 686974        | BALL VALVE                  | 1        |
| 15             | 686100        | PLUG                        | 2        |

|     |         |                    |    |
|-----|---------|--------------------|----|
| 19  | 716078  | PUMP BASE          | 2  |
| 20  | 771402  | CUSHION            | 4  |
| 21  | 683408  | NUT                | 2  |
| 22  | 682740  | CONED DISK SPRING  | 2  |
| 23  | 686162  | BOLT               | 24 |
| 24  | 631014  | PLAIN WASHER       | 8  |
| 25  | 631917  | SPRING LOCK WASHER | 32 |
| 26  | 611197  | BOLT               | 16 |
| 27  | 631937  | WAVE WASHER        | 16 |
| 28  | 631918  | WAVE WASHER        | 16 |
| 29  | 686169  | PIN                | 8  |
| 30  | 611179  | BOLT               | 8  |
| 31  | 619188  | BOLT               | 8  |
| 32  | 686158  | HEX SOCKET SCREW   | 8  |
| 33  | 611177  | BOLT               | 4  |
| 34  | 627013  | NUT                | 12 |
| 35  | 611149  | BOLT               | 4  |
| 36  | 682276  | NUT WITH FLANGE    | 4  |
| 37  | 716031  | OUT VALVE CASE     | 2  |
| 39  | 640045  | O-RING             | 2  |
| 40  | 640060  | O-RING             | 4  |
| 41  | 772941  | GASKET             | 2  |
| 44  | 804764  | MUFFLER            | 1  |
| 51  | 770582  | CUSHION            | 2  |
| KIT | K50-FMN | LIQUID SIDE KIT    |    |
| KIT | K80-AM  | AIR MOTOR KIT      |    |

Air Operated Double Diaphragm Pump

General Tools:

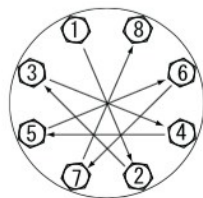
- Socket wrench - 10mm, 13mm, 17mm, 19mm, 24mm,
- Hexagonal box wrenches - 5mm, 6mm, 8mm, 1/4 inch
- Small crowbars - 2
- Snap ring pliers 10mm, 17mm, 19mm, 24mm
- Plastic Hammer

Special Tools:

- Sleeve remover 713180 to remove sleeve (sold separately)

Miscellaneous:

- Nuts - M16 x 1.5
- Urea grease grade (NLGI) No. 2 Center Rod (Ref#



[CLICK HERE FOR TORQUE](#)



[CLICK HERE FOR MAINTENANCE MANUAL](#)

Customer Notes

Model #: \_\_\_\_\_  
Description: \_\_\_\_\_  
Serial #: \_\_\_\_\_  
Date Installed: \_\_\_\_\_  
Department Location: \_\_\_\_\_  
Tag/Project: \_\_\_\_\_

