

# EXPLODED VIEW & PARTS LISTING

## Air Operated Double Diaphragm Pump

Model: NDP-15FP[x]-D (FLAT)  
Polypropylene Drum Pump Series



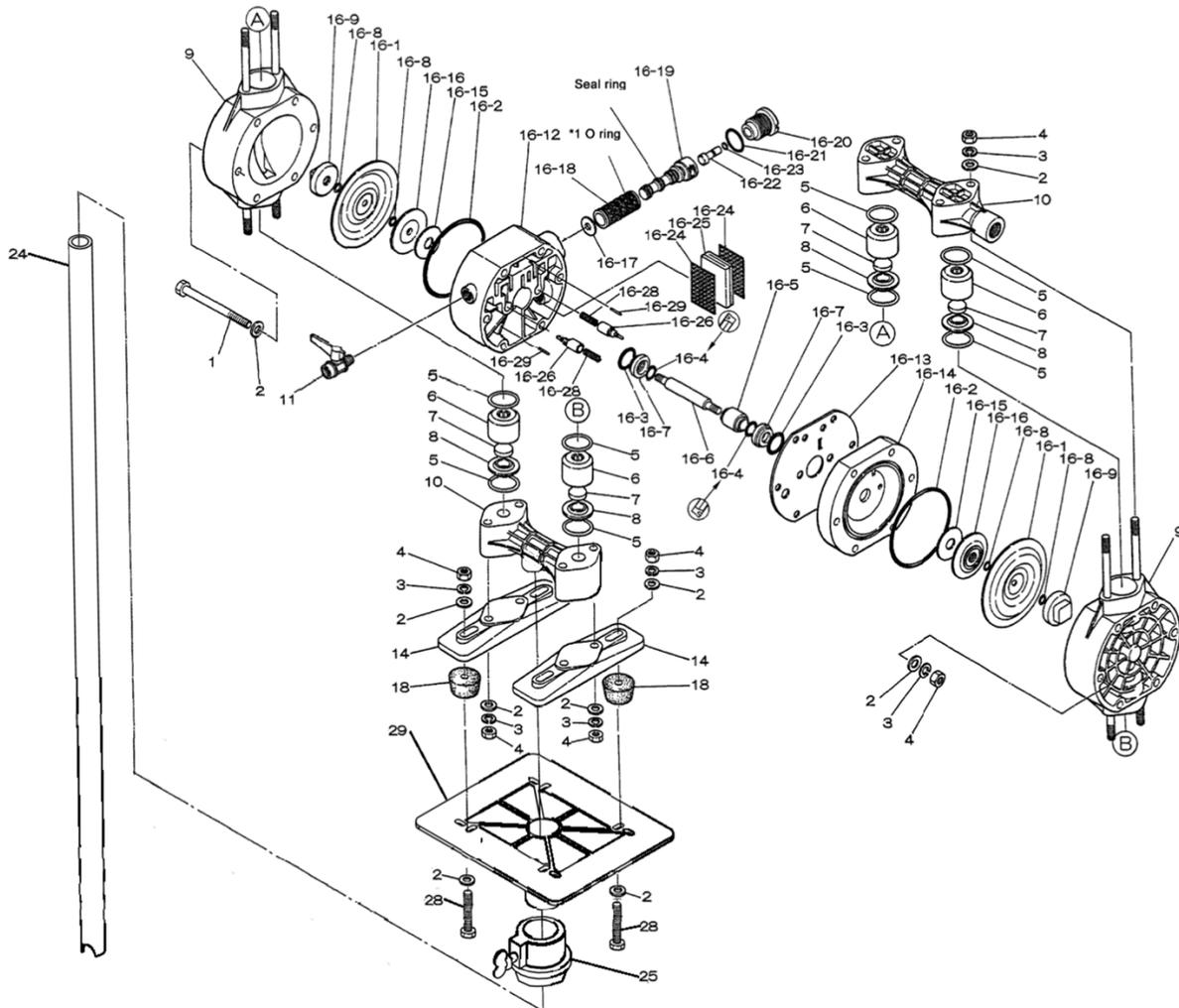
### To Purchase:

- ☎ 800-990-7867
- ✉ sales@yamadapump.com
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### More Information:

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- Data Sheets | CAD Drawings | Manuals Literature | BOM | Performance Curves

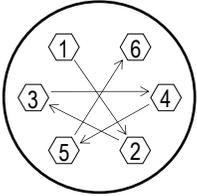
### Trial Program



Air Operated Double Diaphragm Pump

|            | NDP-15FPH-D | NDP-15FPN-D | NDP-15FPS-D | NDP-15FPT-D |                         |      |         |
|------------|-------------|-------------|-------------|-------------|-------------------------|------|---------|
| REF. No.   | PART No.    | PART No.    | PART No.    | PART No.    | DESCRIPTION             | QTY. | REORDER |
| 1          | 684310      | 684310      | 684310      | 684310      | BOLT                    | 6    |         |
| 2          | 631329      | 631329      | 631329      | 631329      | PLAIN WASHER            | 28   |         |
| 3          | 681300      | 681300      | 681300      | 681300      | SPRING LOCK WASHER      | 18   |         |
| 4          | 628012      | 628012      | 628012      | 628012      | NUT                     | 18   |         |
| 5          | 640027      | 640027      | 684115      | 643027      | O-RING                  | 8    |         |
| 6          | 771341      | 771341      | 771341      | 771341      | VALVE STOPPER           | 4    |         |
| 7          | 771340      | 771340      | 771340      | 771340      | FLAT VALVE              | 4    |         |
| 8          | 771345      | 771345      | 771345      | 771345      | VALVE SEAT              | 4    |         |
| 9          | 780119      | 780119      | 780119      | 780119      | OUT CHAMBER             | 2    |         |
| 10         | 780027      | 780027      | 780027      | 780027      | MANIFOLD (OUTLET)       | 1    |         |
| 10A        | 780196      | 780196      | 780196      | 780196      | MANIFOLD 15P-MP (INLET) | 1    |         |
| 11         | 686826      | 686826      | 686826      | 686826      | BALL VALVE              | 1    |         |
| 14         | 771352      | 771352      | 771352      | 771352      | BASE                    | 2    |         |
| 16-1       | 771372      | 770973      | 771972      | 770933      | DIAPHRAGM               | 2    |         |
| 16-2       | 640144      | 640144      | 640144      | 640144      | O-RING                  | 2    |         |
| 16-3       | 640020      | 640020      | 640020      | 640020      | O-RING                  | 2    |         |
| 16-4       | 684284      | 684284      | 684284      | 684284      | PACKING                 | 2    |         |
| 16-5       | 771337      | 771337      | 771337      | 771337      | GUIDE                   | 1    |         |
| 16-6       | 710578      | 710578      | 710578      | 710578      | CENTER ROD              | 1    |         |
| 16-7       | 771336      | 771336      | 771336      | 771336      | BUSHING                 | 2    |         |
| 16-8       | -           | 640005      | -           | 643005      | O-RING                  | 4    |         |
| 16-9       | 770968      | 770968      | 770968      | 770968      | CENTER DISK (OUTER)     | 2    |         |
| 16-12      | 780029      | 780029      | 780029      | 780029      | BODY A                  | 1    |         |
| 16-13      | 771347      | 771347      | 771347      | 771347      | GASKET                  | 1    |         |
| 16-14      | 780030      | 780030      | 780030      | 780030      | BODY B                  | 1    |         |
| 16-15      | 771342      | 771342      | 771342      | 771342      | CUSHION                 | 2    |         |
| 16-16      | 771344      | 771344      | 771344      | 771344      | CENTER DISK (INNER)     | 2    |         |
| 16-17      | 771483      | 771483      | 771483      | 771483      | CUSHION                 | 2    |         |
| 16-18      | 804249      | 804249      | 804249      | 804249      | SLEEVE ASSEMBLY         | 1    |         |
| 16-18-*1   | 683123      | 683123      | 683123      | 683123      | O-RING (SLEEVE O.D.)    | 6    |         |
| 16-19      | 802835      | 802835      | 802835      | 802835      | C-SPOOL VALVE ASSY.     | 1    |         |
| 16-19 seal | 771484      | 771484      | 771484      | 771484      | SEAL RING               | 5    |         |
| 16-20      | 771695      | 771695      | 771695      | 771695      | CAP                     | 1    |         |
| 16-21      | 640022      | 640022      | 640022      | 640022      | O-RING                  | 1    |         |
| 16-22      | 771350      | 771350      | 771350      | 771350      | RESET BUTTON            | 1    |         |
| 16-23      | 640002      | 640002      | 640002      | 640002      | O-RING                  | 1    |         |
| 16-24      | 771589      | 771589      | 771589      | 771589      | MESH                    | 2    |         |
| 16-25      | 771465      | 771465      | 771465      | 771465      | SILENCER                | 1    |         |
| 16-26      | 832141      | 832141      | 832141      | 832141      | PILOT VALVE ASSY.       | 2    |         |
| 16-28      | 710577      | 710577      | 710577      | 710577      | SPRING                  | 2    |         |
| 16-29      | 632752      | 632752      | 632752      | 632752      | SPRING PIN              | 2    |         |
| 18         | 770551      | 770551      | 770551      | 770551      | CUSHION                 | 4    |         |
| 24         | 15P-PIPE    | 15P-PIPE    | 15P-PIPE    | 15P-PIPE    | PIPE 3/4" PVC           | 1    |         |
| 25         | 15P-BUNG    | 15P-BUNG    | 15P-BUNG    | 15P-BUNG    | DRUM PLATE BUNG ADAPTER | 1    |         |
| 28         | 15P-BOLT    | 15P-BOLT    | 15P-BOLT    | 15P-BOLT    | BOLT                    | 4    |         |
| 29         | 773337      | 773337      | 773337      | 773337      | DRUM PUMP BASE          | 1    |         |
| 30         | 631329      | 631329      | 631329      | 631329      | WASHER                  | 4    |         |
| KIT        | K15-PH      | K15-PN      | K15-PS      | K15-PT      | LIQUID SIDE             |      |         |
| KIT        | K15-AM      |             |             |             | AIR MOTOR               |      |         |
| KIT        | NDP-15PD    |             |             |             | DRUM KIT                |      |         |

## Air Operated Double Diaphragm Pump

**Tightening torque for center rod and out chambers.**

|              |                     |
|--------------|---------------------|
| Center Rod   | 122 in-lbf {14 N-m} |
| Out Chambers | 105 in-lbf {12 N-m} |

**Tightening torque for manifold retainer bolts or nuts.**

|             |                     |
|-------------|---------------------|
| FPC/H/N/S/T | 105 in-lbf {12 N-m} |
|-------------|---------------------|

**General Tools:**

- Socket wrench - 13mm
- Open-end wrenches - 13mm, 21mm
- Plier

**Special Tools (sold separately):**

- Cap & disk remover (771132)
- Sleeve remover (713148)

**Miscellaneous:**

- Assembly Oil - turbine oil class 1 (equivalent to ISO VG32 grade)
- Nuts - M8 x 1.25
- Urea grease grade (NLGI) No. 2