

# EXPLODED VIEW & PARTS LISTING

## Air Operated Double Diaphragm Pump

Model: NDP-25BA[x]  
Aluminum Series



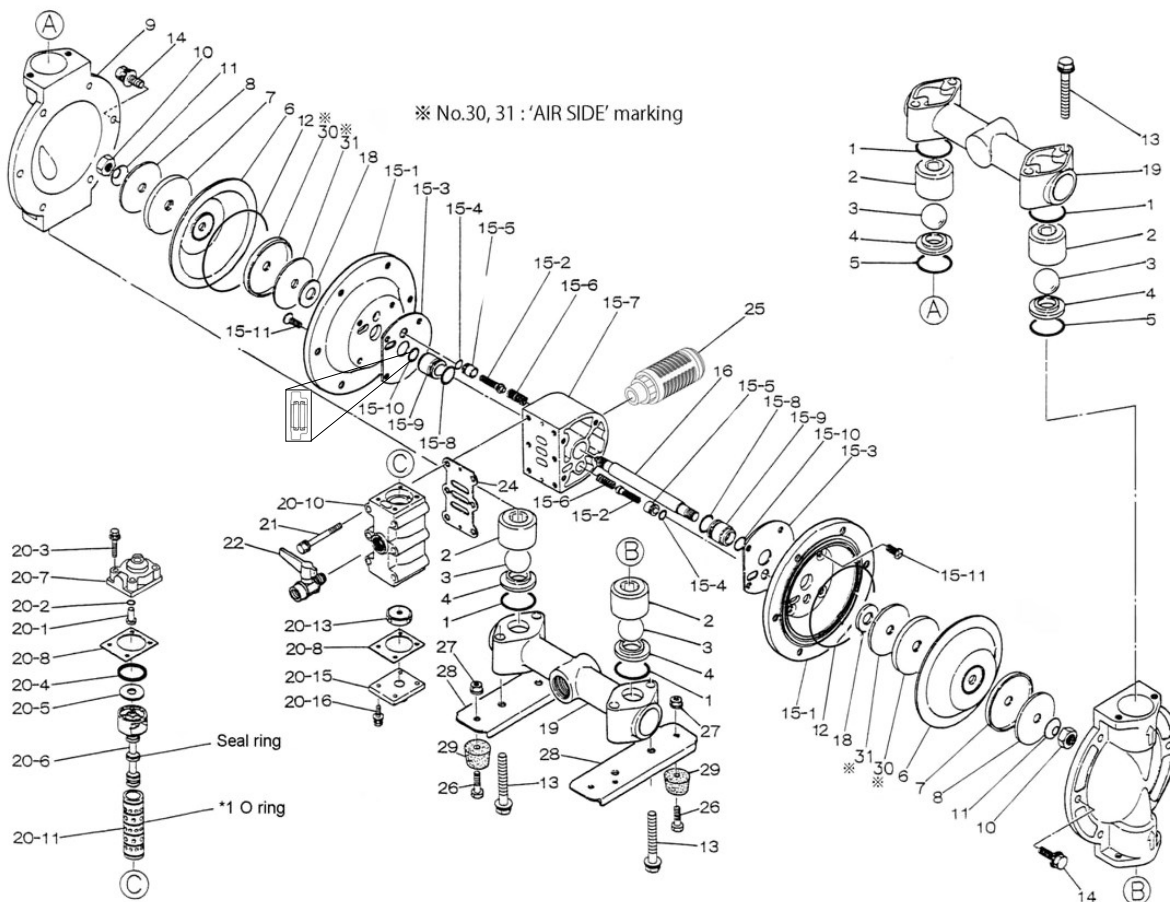
### To Purchase:

- ☎ 800-990-7867
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### Trial Program



Air Operated Double Diaphragm Pump

|           | NDP-25BAC | NDP-25BAN | NDP-25BAE | NDP-25BAH | NDP-25BAS | NDP-25BAV |                           |      |         |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------------|------|---------|
|           | 851527    | 851528    | 851529    | 852100    | 852701    | 851530    |                           |      |         |
| REF. NO.  | PART NO.  | PART NO.  | PART NO.  | PART NO.  | PART NO.  | PART NO.  | DESCRIPTION               | QTY. | REORDER |
| 1         | 640044    | 640044    | 683997    | 640044    | 683997    | 642044    | O RING                    | 4    |         |
| 2         | 711702    | 711702    | 711702    | 711702    | 711702    | 711702    | BALL GUIDE 25AL           | 4    |         |
| 3         | 770556    | 770581    | 770590    | 773127    | 773171    | 770599    | BALL 25                   | 4    |         |
| 4         | 590087    | 590087    | 590087    | 590087    | 590087    | 590087    | VALVE SEAT 25AL/FC        | 4    |         |
| 5         | 640134    | 640134    | 683996    | 640134    | 683996    | 642134    | O-RING                    | 2    |         |
| 6         | 772961    | 772962    | 772963    | 771363    | 771974    | 772964    | DIAPHRAGM 25              | 2    |         |
| 7         | 709151    | 709151    | 709151    | 709151    | 709151    | 709151    | CENTER DISK (LIQUID SIDE) | 2    |         |
| 8         | 709150    | 709150    | 709150    | 709150    | 709150    | 709150    | WASHER 25R (LIQUID SIDE)  | 2    |         |
| 9         | 711687    | 711687    | 711687    | 711687    | 711687    | 711687    | OUT CHAMBER 25AL          | 2    |         |
| 10        | 682263    | 682263    | 682263    | 682263    | 682263    | 682263    | NUT SS                    | 2    |         |
| 11        | 682730    | 682730    | 682730    | 682730    | 682730    | 682730    | CONED DISK SPRING         | 2    |         |
| 12        | -         | -         | -         | 640154    | 640154    | -         | O-RING                    | 2    |         |
| 13        | 611185    | 611185    | 611185    | 611185    | 611185    | 611185    | BOLT                      | 8    |         |
| 13        | 631917    | 631917    | 631917    | 631917    | 631917    | 631917    | WAVE WASHER               | 8    |         |
| 14        | 611177    | 611177    | 611177    | 611177    | 611177    | 611177    | BOLT                      | 12   |         |
| 14        | 631917    | 631917    | 631917    | 631917    | 631917    | 631917    | WAVE WASHER               | 12   |         |
| 15        | 804880    | 804880    | 804880    | 804880    | 804880    | 804880    | BODY ASSY                 | 1    |         |
| 15- 1     | 715939    | 715939    | 715939    | 715939    | 715939    | 715939    | AIR CHAMBER               | 2    |         |
| 15- 2     | 802360    | 802360    | 802360    | 802360    | 802360    | 802360    | PILOT VALVE ASSY 20/25    | 2    |         |
| 15- 3     | 771057    | 771057    | 771057    | 771057    | 771057    | 771057    | GASKET 20/25              | 2    |         |
| 15- 4     | 640009    | 640009    | 640009    | 640009    | 640009    | 640009    | O RING                    | 2    |         |
| 15- 5     | 771945    | 771945    | 771945    | 771945    | 771945    | 771945    | PILOT VALVE SEAT 20/25    | 2    |         |
| 15- 6     | 708666    | 708666    | 708666    | 708666    | 708666    | 708666    | SPRING 20/25              | 2    |         |
| 15- 7     | 709812    | 709812    | 709812    | 709812    | 709812    | 709812    | BODY 20/25                | 1    |         |
| 15- 8     | 685276    | 685276    | 685276    | 685276    | 685276    | 685276    | O RING                    | 2    |         |
| 15- 9     | 780324    | 780324    | 780324    | 780324    | 780324    | 780324    | THROAT BEARING            | 2    |         |
| 15-10     | 685414    | 685414    | 685414    | 685414    | 685414    | 685414    | V-PACKING 20/25           | 2    |         |
| 15-11     | 682486    | 682486    | 682486    | 682486    | 682486    | 682486    | BOLT W/WASHER             | 8    |         |
| 16        | 709162    | 709162    | 709162    | 709162    | 709162    | 709162    | CENTER ROD 25             | 1    |         |
| 18        | 771054    | 771054    | 771054    | 771054    | 771054    | 771054    | CUSHION 20/25             | 2    |         |
| 19        | 831281    | 831281    | 831281    | 831281    | 831281    | 831281    | MANIFOLD 25AL             | 2    |         |
| 20        | 802362    | 802362    | 802362    | 802362    | 802362    | 802362    | VALVE ASSY                | 1    |         |
| 20- 1     | 709161    | 709161    | 709161    | 709161    | 709161    | 709161    | RESET BUTTON 20/25        | 1    |         |
| 20- 2     | 640005    | 640005    | 640005    | 640005    | 640005    | 640005    | O RING                    | 1    |         |
| 20- 3     | 682704    | 682704    | 682704    | 682704    | 682704    | 682704    | BOLT W/WASHER             | 4    |         |
| 20- 4     | 771241    | 771241    | 771241    | 771241    | 771241    | 771241    | PACKING 20/25             | 1    |         |
| 20- 5     | 715961    | 715961    | 715961    | 715961    | 715961    | 715961    | WASHER                    | 1    |         |
| 20- 6     | 802400    | 802400    | 802400    | 802400    | 802400    | 802400    | C SPOOL ASSY              | 1    |         |
| 20-6 seal | 771053    | 771053    | 771053    | 771053    | 771053    | 771053    | SEAL RING                 | 5    |         |
| 20- 7     | 710221    | 710221    | 710221    | 710221    | 710221    | 710221    | CAP A 20/25 METAL         | 1    |         |
| 20- 8     | 771240    | 771240    | 771240    | 771240    | 771240    | 771240    | GASKET 20/25              | 2    |         |
| 20-10     | 711639    | 711639    | 711639    | 711639    | 711639    | 711639    | VALVE BODY 20/25 METAL    | 1    |         |
| 20-11     | 803931    | 803931    | 803931    | 803931    | 803931    | 803931    | SLEEVE ASSY               | 1    |         |
| 20-11-*1  | 771080    | 771080    | 771080    | 771080    | 771080    | 771080    | O-RING                    | 6    |         |
| 20-13     | 771914    | 771914    | 771914    | 771914    | 771914    | 771914    | CUSHION 20/25             | 1    |         |
| 20-15     | 709305    | 709305    | 709305    | 709305    | 709305    | 709305    | CAP B 20/25               | 1    |         |
| 20-16     | 682262    | 682262    | 682262    | 682262    | 682262    | 682262    | BOLT W/WASHER             | 4    |         |
| 21        | 682265    | 682265    | 682265    | 682265    | 682265    | 682265    | BOLT W/WASHER             | 6    |         |
| 22        | 686970    | 686970    | 686970    | 686970    | 686970    | 686970    | BALL VALVE 3/8            | 1    |         |
| 24        | 771056    | 771056    | 771056    | 771056    | 771056    | 771056    | GASKET 20/25              | 1    |         |
| 25        | 804697    | 804697    | 804697    | 804697    | 804697    | 804697    | MUFFLER 20/25PP           | 1    |         |
| 26        | 611148    | 611148    | 611148    | 611148    | 611148    | 611148    | BOLT HEX FT               | 4    |         |
| 27        | 682276    | 682276    | 682276    | 682276    | 682276    | 682276    | NUT W/ FLANGE             | 4    |         |
| 28        | 709156    | 709156    | 709156    | 709156    | 709156    | 709156    | BASE                      | 2    |         |
| 29        | 770551    | 770551    | 770551    | 770551    | 770551    | 770551    | FOOT RUBBER               | 4    |         |
| 30        | 716258    | 716258    | 716258    | 716258    | 716258    | 716258    | CENTER DISK (AIR SIDE)    | 2    |         |
| 31        | 716259    | 716259    | 716259    | 716259    | 716259    | 716259    | WASHER (AIR SIDE)         | 2    |         |
| KIT       | K25-MC-1  | K25-MN-1  | K25-ME-1  | K25-MH-1  | K25-MS-1  | K25-MV-1  | LIQUID END KIT            |      |         |
| KIT       |           |           |           | K225-AM   |           |           | AIR MOTOR KIT             |      |         |

**Air Operated Double Diaphragm Pump**

**General Tools:**

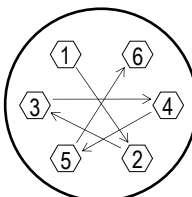
- Socket wrenches - 10mm, 12mm, 13mm, 17mm, 22mm
- Hexagonal box wrench - 5mm
- Open-end wrenches - 22mm

**Special Tools:**

- Sleeve remover (713148) used to remove sleeves (sold separately).

**Miscellaneous:**

- Assembly Oil - turbine oil class 1 - no additives (equivalent to ISO VG32 grade)
- Nuts - M14 x 1.5
- Urea grease grade (NLGI) No. 2
- Lubricants - equivalent to Loctite Anti-Seize 767



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

|                      |                    |
|----------------------|--------------------|
| Center Rod           | 29 ft-lbf {40 N-m} |
| Out Chambers C/N/E/V | 8 ft-lbf {10 N-m}  |
| Out Chambers H/S     | 15 lbf-ft {20 N-m} |

**Tightening torque for manifold bolts.**

|               |                   |
|---------------|-------------------|
| BAC/N/E/H/S/V | 8 ft-lbf {10 N-m} |
|---------------|-------------------|

**Customer Notes**

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