

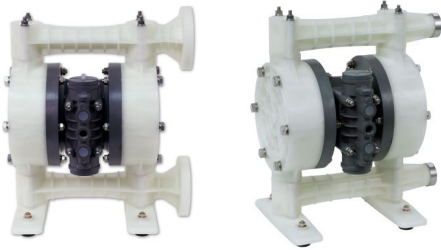
EXPLODED VIEW & PARTS LISTING

Air Operated Double Diaphragm Pump

Model: NDP-20BP[x]-PP

Polypropylene Series

Rubber fitted w/non-metallic center



To Purchase:

☎ 800-990-7867

✉ sales@yamadapump.com

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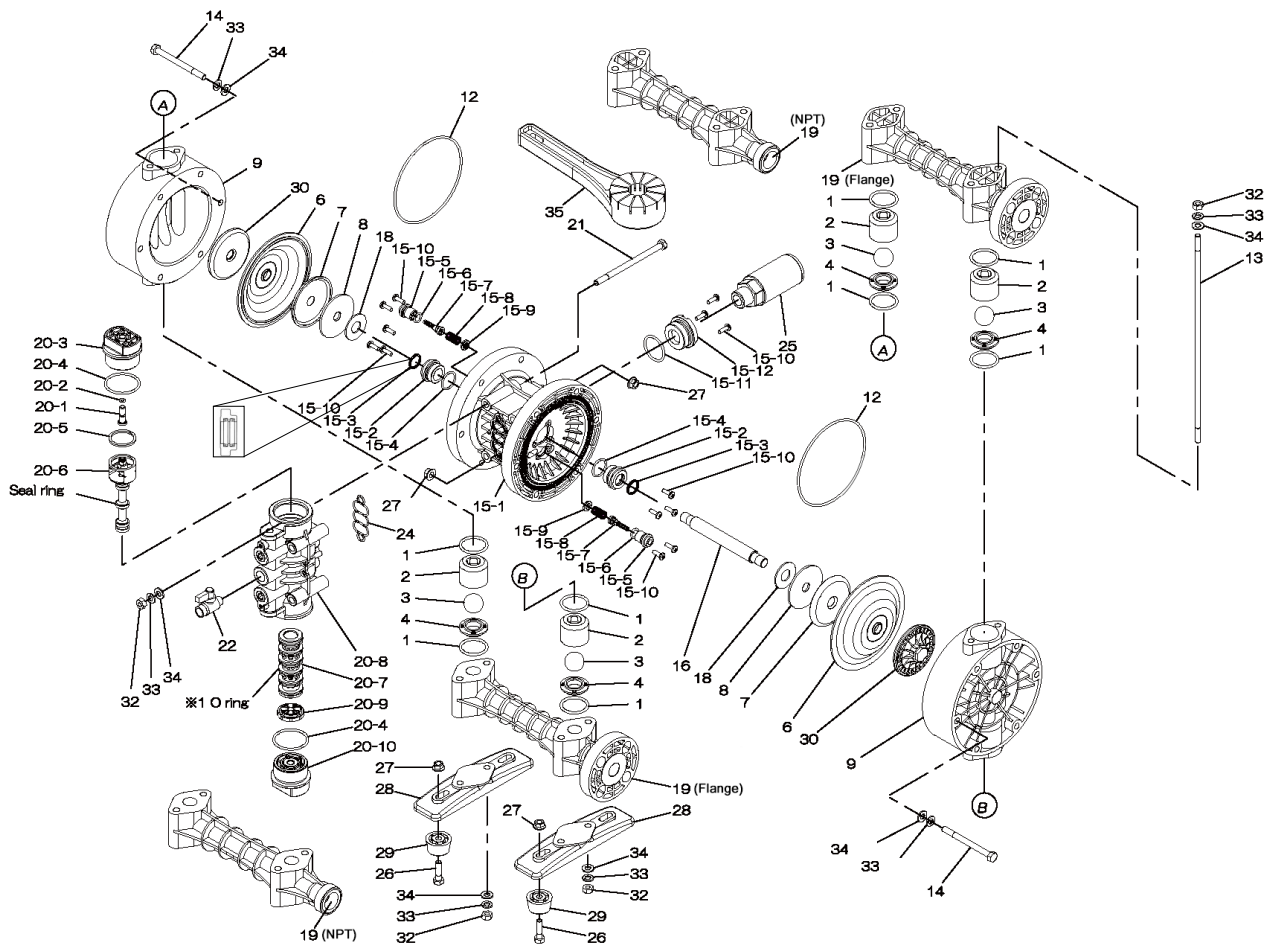
More Information:

▶ YouTube: @yamadapump

🌐 yamadapump.com

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

Trial Program



EXPLODED VIEW & PARTS LISTING

Model: NDP-20BP[x]-PP
Polypropylene Series



Air Operated Double Diaphragm Pump

Rubber fitted w/non-metallic center

| | NDP-20BPC-PP | NDP-20BPN-PP | NDP-20BPE-PP | NDP-20BPV-PP | NDP-20BPH-PP | NDP-20BPS-PP | | | |
|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------|------|---------|
| NPT | 854094 | 854095 | 854096 | 854097 | 854099 | 854100 | ** NPT PUMPS ** | | |
| FLANGE | 854108 | 854109 | 854110 | 854111 | 854113 | 854114 | ** FLANGE PUMPS ** | | |
| REF. No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | DESCRIPTION | QTY. | REORDER |
| 1 | 640033 | 640033 | 684116 | 642033 | 640033 | 684116 | O-RING | 8 | |
| 2 | 771216 | 771216 | 771216 | 771216 | 771216 | 771216 | BALL GUIDE 20PP | 4 | |
| 3 | 770705 | 770720 | 770723 | 770726 | 773126 | 773170 | BALL | 4 | |
| 4 | 780137 | 780137 | 780137 | 780137 | 780137 | 780137 | VALVE SEAT 20PP | 4 | |
| 6 | 772957 | 772958 | 772959 | 772960 | 771362 | 771973 | DIAPHRAGM | 2 | |
| 7 | 716225 | 716225 | 716225 | 716225 | 716225 | 716225 | CENTER DISK (AIR SIDE) | 2 | |
| 8 | 716226 | 716226 | 716226 | 716226 | 716226 | 716226 | WASHER | 2 | |
| 9 | 780134 | 780134 | 780134 | 780134 | 780134 | 780134 | OUT CHAMBER 20PP | 2 | |
| 12 | - | - | - | - | 640151 | 640151 | O-RING | 2 | |
| 13 | 710122 | 710122 | 710122 | 710122 | 710122 | 710122 | TIE ROD 20PP | 4 | |
| 14 | 621166 | 621166 | 621166 | 621166 | 621166 | 621166 | BOLT | 12 | |
| 15 | 804603 | 804603 | 804603 | 804603 | 804603 | 804603 | CENTER BODY ASSY | 1 | |
| 15-1 | 772928 | 772928 | 772928 | 772928 | 772928 | 772928 | BODY 20-PP | 1 | |
| 15-2 | 780326 | 780326 | 780326 | 780326 | 780326 | 780326 | THROAT BEARING 20/25-PP | 2 | |
| 15-3 | 685414 | 685414 | 685414 | 685414 | 685414 | 685414 | V-PACKING 20/25 | 2 | |
| 15-4 | 685276 | 685276 | 685276 | 685276 | 685276 | 685276 | O-RING | 2 | |
| 15-5 | 772932 | 772932 | 772932 | 772932 | 772932 | 772932 | VALVE SEAT 20PP | 2 | |
| 15-6 | 640009 | 640009 | 640009 | 640009 | 640009 | 640009 | O-RING | 2 | |
| 15-7 | 802360 | 802360 | 802360 | 802360 | 802360 | 802360 | PILOT VALVE ASSY. 20/25 | 2 | |
| 15-8 | 708666 | 708666 | 708666 | 708666 | 708666 | 708666 | SPRING 20/25 | 2 | |
| 15-9 | 772948 | 772948 | 772948 | 772948 | 772948 | 772948 | SPRING SEAT 20/25-PP | 2 | |
| 15-10 | 686030 | 686030 | 686030 | 686030 | 686030 | 686030 | TAPPING SCREW | 13 | |
| 15-11 | 640132 | 640132 | 640132 | 640132 | 640132 | 640132 | O-RING | 1 | |
| 15-12 | 772933 | 772933 | 772933 | 772933 | 772933 | 772933 | BUSHING | 1 | |
| 16 | 710252 | 710252 | 710252 | 710252 | 710252 | 710252 | CENTER ROD 20PP | 1 | |
| 18 | 771054 | 771054 | 771054 | 771054 | 771054 | 771054 | CUSHION 20/25 | 2 | |
| 19 | 780010 | 780010 | 780010 | 780010 | 780010 | 780010 | MANIFOLD 20PP-NPT | 2 | |
| 19 | 780208 | 780208 | 780208 | 780208 | 780208 | 780208 | MANIFOLD 20PP-FLANGE | 2 | |
| 20 | 804608 | 804608 | 804608 | 804608 | 804608 | 804608 | AIR VALVE ASSY | 1 | |
| 20-1 | 772991 | 772991 | 772991 | 772991 | 772991 | 772991 | RESET BUTTON 20/25-PP | 1 | |
| 20-2 | 640002 | 640002 | 640002 | 640002 | 640002 | 640002 | O-RING | 1 | |
| 20-3 | 772946 | 772946 | 772946 | 772946 | 772946 | 772946 | CAP A | 1 | |
| 20-4 | 640043 | 640043 | 640043 | 640043 | 640043 | 640043 | O-RING | 2 | |
| 20-5 | 771241 | 771241 | 771241 | 771241 | 771241 | 771241 | PACKING | 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 | 804609 | 804609 | 804609 | 804609 | 804609 | 804609 | SLEEVE ASSY. | 1 | |
| 20-7*1 | 686029 | 686029 | 686029 | 686029 | 686029 | 686029 | O-RING (SLEEVE O.D.) | 6 | |
| 20-8 | 832903 | 832903 | 832903 | 832903 | 832903 | 832903 | VALVE BODY | 1 | |
| 20-9 | 771914 | 771914 | 771914 | 771914 | 771914 | 771914 | CUSHION | 1 | |
| 20-10 | 772947 | 772947 | 772947 | 772947 | 772947 | 772947 | CAP B | 1 | |
| 21 | 686031 | 686031 | 686031 | 686031 | 686031 | 686031 | BOLT | 4 | |
| 22 | 686968 | 686968 | 686968 | 686968 | 686968 | 686968 | BALL VALVE | 1 | |
| 24 | 772848 | 772848 | 772848 | 772848 | 772848 | 772848 | GASKET | 1 | |
| 25 | 804697 | 804697 | 804697 | 804697 | 804697 | 804697 | SILENCER | 1 | |
| 26 | 621151 | 621151 | 621151 | 621151 | 621151 | 621151 | BOLT | 4 | |
| 27 | 686032 | 686032 | 686032 | 686032 | 686032 | 686032 | NUT W/FLANGE | 16 | |
| 28 | 771219 | 771219 | 771219 | 771219 | 771219 | 771219 | PUMP BASE | 2 | |
| 29 | 770551 | 770551 | 770551 | 770551 | 770551 | 770551 | FOOT RUBBER | 4 | |

Air Operated Double Diaphragm Pump

Rubber fitted w/non-metallic center

| | NDP-20BPC-PP | NDP-20BPN-PP | NDP-20BPE-PP | NDP-20BPV-PP | NDP-20BPH-PP | NDP-20BPS-PP | | | |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------------|------|---------|
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| FLANGE | 854108 | 854109 | 854110 | 854111 | 854113 | 854114 | ** FLANGE PUMPS ** | | |
| REF. No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | PARTS No. | DESCRIPTION | QTY. | REORDER |
| 30 | 780123 | 780123 | 780123 | 780123 | 780123 | 780123 | CENTER DISK (LIQUID SIDE) | 2 | |
| 32 | 683635 | 683635 | 683635 | 683635 | 683635 | 683635 | NUT | 12 | |
| 33 | 681300 | 681300 | 681300 | 681300 | 681300 | 681300 | SPRING WASHER | 24 | |
| 34 | 631329 | 631329 | 631329 | 631329 | 631329 | 631329 | FLAT WASHER | 24 | |
| 35 | 771244 | 771244 | 771244 | 771244 | 771244 | 771244 | TOOL | 2 | |
| KIT | K20-PC-PP | K20-PN-PP | K20-PE-PP | K20-PV-PP | K20-PH-PP | K20-PS-PP | LIQUID SIDE | | |
| KIT | K225-AP | | | | | | AIR MOTOR | | |

General Tools:

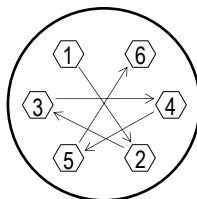
- Socket wrenches - 10mm, 12mm, 13mm, 17mm, 22mm
- Hexagonal box wrench - 5mm
- Open-end wrenches - 12mm, 13mm, 22mm
- Adjustable angle wrenches
- Phillips head screw driver

Special Tools:

- Accessory tool (771244) (included)
- Sleeve remover (713148) (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



Tightening torque for center rod and out chambers.

Center Rod 29 ft-lbf {40 N-m}
Out Chambers 10 ft-lbf {13 N-m}

Tightening torque for manifold retainer nuts.

BPC/N/E/V/H/S-PP 8 ft-lbf {10 N-m}

Customer Notes

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