

# EXPLODED VIEW & PARTS LISTING

## Air Operated Double Diaphragm Pump

Model: NDP-20BP[x]-D  
Polypropylene Drum Pump Series  
(w/metal center body)



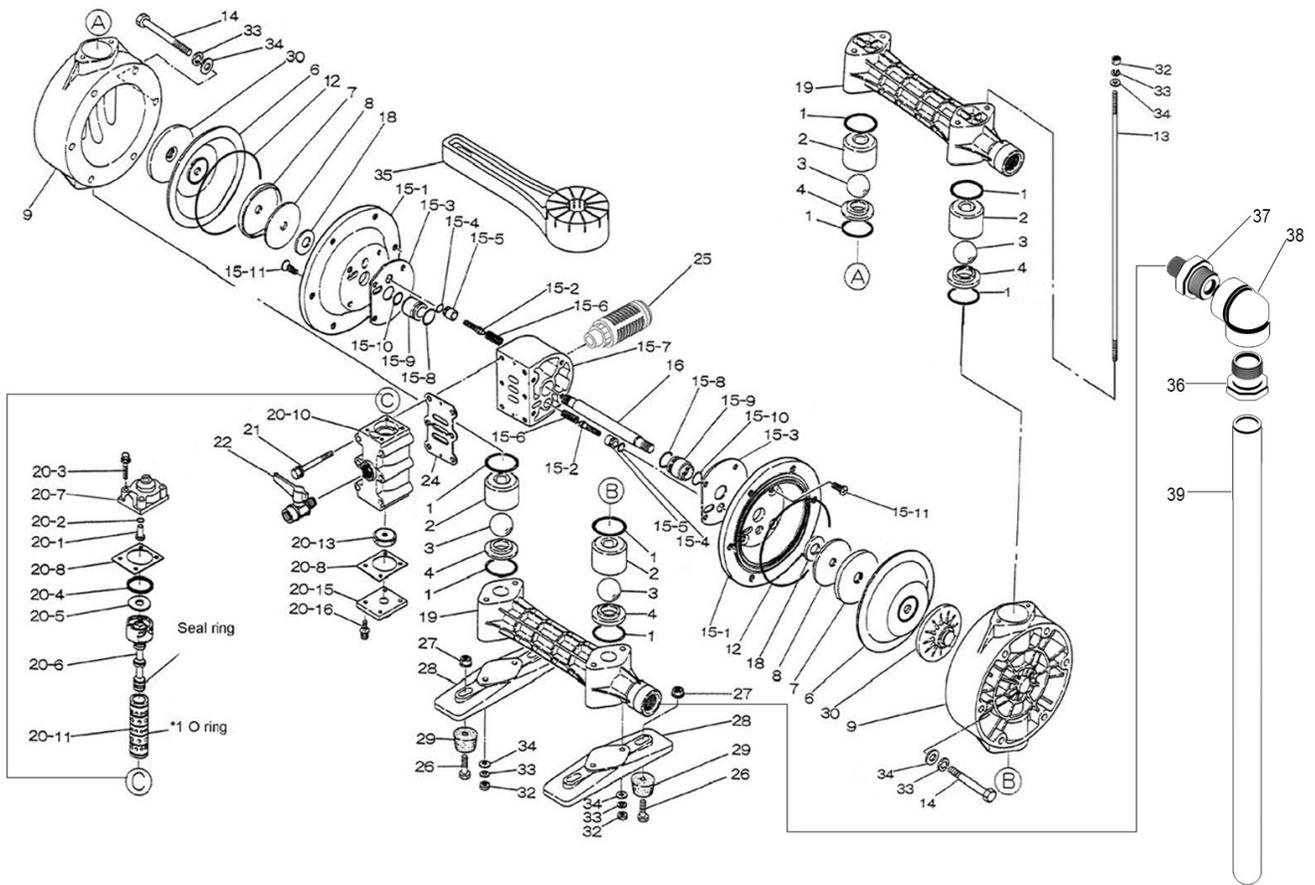
### To Purchase:

- 800-990-7867
- sales@yamadapump.com
- Find My Rep

### More Information:

- YouTube: @yamadapump
- yamadapump.com
- Data Sheets | CAD Drawings | Manuals Literature | BOM | Performance Curves

### Trial Program



Air Operated Double Diaphragm Pump

REF. NO.	NDP-20BPC-D PART NO.	NDP-20BPE-D PART NO.	NDP-20BPH-D PART NO.	NDP-20BPN-D PART NO.	NDP-20BPS-D PART NO.	NDP-20BPV-D PART NO.	DESCRIPTION	QTY.	REORDER
1	640033	684116	640033	640033	684116	642033	O RING	8	
2	771216	771216	771216	771216	771216	771216	BALL GUIDE	4	
3	770705	770723	773126	770720	773170	770726	BALL	4	
4	780137	780137	780137	780137	780137	780137	VALVE SEAT	4	
6	772957	772959	771362	772958	771973	772960	DIAPHRAGM	2	
7	716225	716225	716225	716225	716225	716225	CENTER DISK	2	
8	716226	716226	716226	716226	716226	716226	WASHER	2	
9	780134	780134	780134	780134	780134	780134	OUT CHAMBER	2	
12	-	-	640151	-	640151	-	O RING	2	
13	710122	710122	710122	710122	710122	710122	TIE ROD	4	
14	621163	621163	621163	621163	621163	621163	BOLT	12	
15	804878	804878	804878	804878	804878	804878	CENTER BODY ASSY.	1	
15-1	715938	715938	715938	715938	715938	715938	AIR CHAMBER	2	
15-2	802360	802360	802360	802360	802360	802360	PILOT VALVE ASSY.	2	
15-3	771057	771057	771057	771057	771057	771057	GASKET	2	
15-4	640009	640009	640009	640009	640009	640009	O RING	2	
15-5	771945	771945	771945	771945	771945	771945	PILOT VALVE SEAT	2	
15-6	708666	708666	708666	708666	708666	708666	SPRING	2	
15-7	711503	711503	711503	711503	711503	711503	BODY	1	
15-8	685276	685276	685276	685276	685276	685276	O RING	2	
15-9	772703	772703	772703	772703	772703	772703	THROAT BEARING	2	
15-10	685414	685414	685414	685414	685414	685414	V PACKING	2	
15-11	682486	682486	682486	682486	682486	682486	BOLT	8	
16	710252	710252	710252	710252	710252	710252	CENTER ROD	1	
18	771054	771054	771054	771054	771054	771054	CUSHION	2	
19	780010	780010	780010	780010	780010	780010	MANIFOLD	2	
20	802809	802809	802809	802809	802809	802809	AIR VALVE ASSY.	1	
20-1	709161	709161	709161	709161	709161	709161	RESET BUTTON	1	
20-2	640005	640005	640005	640005	640005	640005	O RING	1	
20-3	684704	684704	684704	684704	684704	684704	BOLT	4	
20-4	771241	771241	771241	771241	771241	771241	PACKING	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	711219	711219	711219	711219	711219	711219	CAP A	1	
20-8	771240	771240	771240	771240	771240	771240	GASKET	2	
20-10	711640	711640	711640	711640	711640	711640	VALVE BODY	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	1	
20-15	711212	711212	711212	711212	711212	711212	CAP B	1	
20-16	682262	682262	682262	682262	682262	682262	BOLT	4	
21	682265	682265	682265	682265	682265	682265	BOLT	6	
22	686968	686968	686968	686968	686968	686968	BALL VALVE	1	
24	771056	771056	771056	771056	771056	771056	GASKET	1	
25	804697	804697	804697	804697	804697	804697	MUFFLER	1	
26	611151	611151	611151	611151	611151	611151	BOLT	4	
27	682276	682276	682276	682276	682276	682276	NUT W/ FLANGE	4	
28	771219	771219	771219	771219	771219	771219	BASE	2	
29	770551	770551	770551	770551	770551	770551	FOOT RUBBER	4	
30	780123	780123	780123	780123	780123	780123	CENTER DISK	2	
32	683635	683635	683635	683635	683635	683635	NUT	8	
33	681300	681300	681300	681300	681300	681300	SPRING WASHER	20	
34	631329	631329	631329	631329	631329	631329	FLAT WASHER	20	
35	771244	771244	771244	771244	771244	771244	TOOL	2	
36	20P-BUNG	20P-BUNG	20P-BUNG	20P-BUNG	20P-BUNG	20P-BUNG	BUSHING	1	
37	20P-BUSH	20P-BUSH	20P-BUSH	20P-BUSH	20P-BUSH	20P-BUSH	NIPPLE	1	
38	20P-ELBO	20P-ELBO	20P-ELBO	20P-ELBO	20P-ELBO	20P-ELBO	ELBOW	1	
39	20P-PIPE	20P-PIPE	20P-PIPE	20P-PIPE	20P-PIPE	20P-PIPE	PIPE	1	
KIT	NDP-20PD						DRUM PUMP KIT		
KIT	K20-PC	K20-PE	K20-PH	K20-PN	K20-PS	K20-PV	LIQUID SIDE KIT		
KIT	K225-AM						AIR MOTOR KIT		

**Air Operated Double Diaphragm Pump**

**General Tools:**

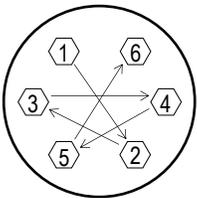
- Socket wrench - 10mm, 12mm, 13mm, 17mm, 22mm
- Hexagonal box wrenches - 5mm
- Open-end wrench - 13mm

**Special Tools:**

- Disk remover (771244) (included)
- Sleeve remover (713148) (sold separately)

**Miscellaneous:**

- Assembly Oil—turbine oil class 1 (equivalent to ISO VG32 grade)
- Nuts - M14x1.5
- Urea grease grade (NLGI) No. 2
- Lubricants equivalent to LOCTITE® Anti-Seize 767



**Tightening Torques**

Center Rod	29 ft-lbf {40 N-m}
Out Chamber (C/E/N/V)	8 ft-lbf {10 N-m}
Out Chamber (H/S)	10 ft-lbf {13 N-m}
Manifold Retainer Bolts	8 ft-lbf {10 N-m}
Valve Body Bolts	5.5 ft-lbf {7.5 N-m}
Cap A, Cap B	4.5 ft-lbf {6 N-m}

**Customer Notes**

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