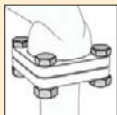


## Industrial Air-Operated Double Diaphragm (AODD) Pumps

AODD pumps use compressed air to drive the pump. They are self-priming, can run dry for long periods, and are sealless. No sparks are produced during operation, and can be grounded, making them suited for environments where hazardous, explosive, or easily-ignitable materials are present. Pumps can handle liquids of varying consistencies and viscosities, suspended solids, fuels, and oils. Used for a wide range of applications such as general transfer or dewatering in mining operations to move abrasives.

(Choosing the appropriate pump housing material reduces the risk of pump failure, ensures optimal performance, and decreases the time between maintenance and repair. Refer to the manufacturer's chemical compatibility guide for additional information.)

### Pump Assemblies & Manifold Connections



#### Pump Assemblies:

**Bolt Style**—Tightly fastens the connection points of a pump, creating a better seal than clamp assembly types. Bolt pump assembly types are better suited for chemical applications since they're less likely to leak during operation.

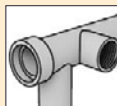


**Clamp Style**—Provides quick assembly and disassembly, making maintenance and cleaning easy. The connection points to the pump are secured by a clamp band.



#### Manifold Connections:

**Single Port**—One inlet/discharge port.



**Multiport**—More than one inlet/discharge port, providing multiple installation options.

## ARO<sup>®</sup> SANDPIPER<sup>®</sup> Dayton<sup>®</sup> Cast Iron AODD Pumps

### ■ Single port manifold

Durable and abrasion-resistant, suited for handling slurries and other liquids containing suspended liquids. Ball valves, except 6WY77 is a flap valve.



**ARO  
6CCR1**



**Sandpiper  
29AU60**

| Port Size Combined | Port Type Combined | Flow Rate (Max.) | Max. Discharge Pressure | Diaphragm Material | Valve Material | Check Seat Material† | Solid Diameter (Max.) | Media Temp. (Max.) | Feet of Head (Max.) | Brand     | Mfr. Model      | Pump Item No. | Fluid End Repair Kit Item No. | Air End Repair Kit Item No. |
|--------------------|--------------------|------------------|-------------------------|--------------------|----------------|----------------------|-----------------------|--------------------|---------------------|-----------|-----------------|---------------|-------------------------------|-----------------------------|
| 1 in               | NPTxNPT            | 41 gpm           | 120 psi                 | Santoprene         | Santoprene     | 316 SS               | 0.13 in               | 225 °F             | 289 ft              | ARO       | 666102-2EB-C    | 4RN27         | 4RM95                         | 4RM92                       |
|                    | NPTxNPT            | 54.5 gpm         | 120 psi                 | Santoprene         | Santoprene     | PTFE                 | 0.13 in               | 225 °F             | 289 ft              | ARO       | PD10A-ACP-AAA   | 6CCL1         | 6DMC8                         | 6DMA6                       |
|                    | NPTxNPT            | 45 gpm           | 125 psi                 | PTFE               | PTFE           | PTFE                 | 0.25 in               | 220 °F             | 289 ft              | Sandpiper | S1FB112TANS000. | 29AU57        | 33TC16                        | 38P785                      |
| 1 ½ in             | NPTxNPT            | 90 gpm           | 120 psi                 | Santoprene         | Santoprene     | 316 SS               | 0.25 in               | 225 °F             | 289 ft              | ARO       | 666152-2EB-C    | 4RN28         | 4RM98                         | 4RM92                       |
|                    | NPTxNPT            | 130 gpm          | 120 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.25 in               | 225 °F             | 289 ft              | ARO       | PD15A-ACP-AAA   | 6CCN8         | 6DMC1                         | 6DMA5                       |
|                    | NPTxNPT            | 106 gpm          | 125 psi                 | Santoprene         | Santoprene     | Polyethylene         | 0.25 in               | 180 °F             | 289 ft              | Sandpiper | S15B111WANS000. | 29AU58        | 39L611                        | 39L613                      |
| 2 in               | NPTxNPT            | 164 gpm          | 100 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.31 in               | 212 °F             | —                   | Dayton    | 22A599          | 22A599        | 4RM96                         | 6PY80                       |
|                    | NPTxNPT            | 180 gpm          | 120 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.25 in               | 225 °F             | 289 ft              | ARO       | PD20A-ACP-AAA-B | 6CCR1         | 4RN12                         | 6DMA7                       |
|                    | NPTxNPT            | 208 gpm          | 120 psi                 | Buna-N             | Buna-N         | 316 SS               | 2 in                  | 190 °F             | 231 ft              | Sandpiper | HDF2,DB6I.      | 6WY77         | 33TC20                        | 6XA18                       |
|                    | NPTxNPT            | 135 gpm          | 125 psi                 | Santoprene         | Santoprene     | 316 SS               | 0.37 in               | 275 °F             | 231 ft              | Sandpiper | HDB2,DS4CI.     | 6WY91         | 4RM98                         | —                           |
|                    | NPTxNPT            | 200 gpm          | 125 psi                 | Santoprene         | Santoprene     | EPDM                 | 0.25 in               | 275 °F             | 231 ft              | Sandpiper | S20B111EANS000. | 29AU60        | 39L615                        | 39L613                      |

† SS = stainless steel.

## Dayton<sup>®</sup> ARO<sup>®</sup> SANDPIPER<sup>®</sup> VERSA-MATIC<sup>®</sup> Stainless Steel AODD Pumps

- Ball Valve
- NPT connection
- Single port

Durable, highly resistant to corrosive chemicals and abrasive liquids, and are easily cleaned. Stainless steel is heavier than aluminum and not suited for portable applications.



**Dayton  
6PY55**



**Sandpiper  
12W433**

| Port Size Combined          | Port Type Combined | Flow Rate (Max.) | Max. Discharge Pressure | Diaphragm Material | Valve Material | Check Seat Material† | Solid Diameter (Max.) | Media Temp. (Max.) | Feet of Head (Max.) | Brand       | Mfr. Model      | Pump Item No. | Fluid End Repair Kit Item No. | Air End Repair Kit Item No. |
|-----------------------------|--------------------|------------------|-------------------------|--------------------|----------------|----------------------|-----------------------|--------------------|---------------------|-------------|-----------------|---------------|-------------------------------|-----------------------------|
| ½ in                        | NPTxNPT            | 12 gpm           | 100 psi                 | PTFE               | PTFE           | 316 SS               | 0.03 in               | 180 °F             | —                   | Dayton      | 6PY51           | 6PY51         | 6PY72                         | 6PY78                       |
|                             | NPTxNPT            | 12.4 gpm         | 100 psi                 | PTFE               | PTFE           | 316 SS               | 0.09 in               | 225 °F             | 255 ft              | ARO         | PD05R-ASS-STT-B | 5XA60         | 5XB24                         | 5XB26                       |
|                             | NPTxNPT            | 15 gpm           | 100 psi                 | PTFE               | PTFE           | PTFE                 | 0.13 in               | 220 °F             | 289 ft              | Sandpiper   | S05B1S2TANS000. | 12W430        | 33TC14                        | 38P682                      |
| ¾ in                        | NPTxNPT            | 21 gpm           | 100 psi                 | PTFE               | PTFE           | 316 SS               | 0.06 in               | 212 °F             | —                   | Dayton      | 6PY53           | 6PY53         | 6PY73                         | 6PY79                       |
|                             | NPTxNPT            | 28 gpm           | 100 psi                 | Santoprene         | EPDM           | 316 SS               | 0.06 in               | 212 °F             | —                   | Dayton      | 6PY47           | 6PY47         | 6PY70                         | 6PY79                       |
|                             | NPTxNPT            | 35 gpm           | 100 psi                 | PTFE               | PTFE           | 316 SS               | 0.19 in               | 212 °F             | —                   | Dayton      | 6PY55           | 6PY55         | 6PY74                         | 6PY79                       |
| 1 in                        | NPTxNPT            | 45 gpm           | 125 psi                 | PTFE               | PTFE           | 316 SS               | 0.13 in               | 225 °F             | 289 ft              | ARO         | 666111-244-C    | 5U665         | 4RM93                         | 4RM92                       |
|                             | NPTxNPT            | 42 gpm           | 125 psi                 | PTFE               | PTFE           | 316 SS               | 0.25 in               | 220 °F             | 289 ft              | Sandpiper   | S81.SGN5SS.     | 6WY85         | 6XA25                         | 6XA16                       |
|                             | NPTxNPT            | 45 gpm           | 125 psi                 | Buna-N             | Buna-N         | Polyethylene         | 0.25 in               | 180 °F             | 289 ft              | Sandpiper   | S1FB1SBWANS000. | 12W432        | 38P784                        | 38P785                      |
| 1 ½ in                      | NPTxNPT            | 90 gpm           | 120 psi                 | PTFE               | PTFE           | 316 SS               | 0.25 in               | 225 °F             | 289 ft              | Sandpiper   | S1FB1S2TANS000. | 12W433        | 33TC16                        | 38P785                      |
|                             | NPTxNPT            | 150 gpm          | 100 psi                 | PTFE               | PTFE           | PTFE                 | 0.31 in               | 212 °F             | —                   | Dayton      | 34TJ45          | 34TJ45        | 6PY76                         | 6PY80                       |
|                             | NPTxNPT            | 180 gpm          | 120 psi                 | PTFE               | PTFE           | 316 SS               | 0.25 in               | 225 °F             | 289 ft              | ARO         | PD20A-ASS-STT-B | 6CCR2         | 4RN14                         | 6DMA7                       |
| 2 in                        | NPTxNPT            | 180 gpm          | 120 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.25 in               | 225 °F             | 289 ft              | ARO         | PD20A-ASS-AAA-B | 6CCN7         | 4RN12                         | 6DMA7                       |
|                             | NPTxNPT            | 196 gpm          | 120 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.25 in               | 225 °F             | 289 ft              | ARO         | 666251-EEB-C    | 3PPR2         | 3PPP6                         | 4CWJ3                       |
|                             | NPTxNPT            | 200 gpm          | 125 psi                 | Santoprene         | Santoprene     | EPDM                 | 0.25 in               | 275 °F             | 231 ft              | Sandpiper   | S20B1S1EANS000. | 15U529        | 39L615                        | 39L613                      |
| <b>Clamp Style Assembly</b> |                    |                  |                         |                    |                |                      |                       |                    |                     |             |                 |               |                               |                             |
| 2 in                        | NPTxNPT            | 160 gpm          | 125 psi                 | PTFE               | PTFE           | 316 SS               | 0.25 in               | 220 °F             | 320 ft              | Versa-Matic | E2SA5T5S0C-ATEX | 4GGF5         | 33TC36                        | 22A484                      |
|                             | NPTxNPT            | 160 gpm          | 125 psi                 | Santoprene         | Santoprene     | Santoprene           | 0.25 in               | 300 °F             | 320 ft              | Versa-Matic | E2SA6X660C-ATEX | 4GGF6         | 33TC38                        | 22A484                      |

† SS = stainless steel.