



Models 4042,4043 Non-Metallic Ball Valve

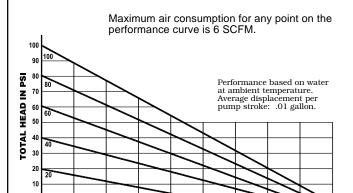
Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE & CONSTRUCTION DATA

| INT | AKE/DISCHARGE SIZE | ADJUSTABLE FLOW | AIR VALVE | SOLIDS HANDLING | MAXIMUM SUCTION LIFT | MAXIMUM VISCOSITY | HEADS UP TO |
|-----|-------------------------------------|---|---------------------------|--------------------|--|------------------------|---|
| | ¼" (6mm) NPT(F) ½" (13mm) NPT(M) | 0 to 4 gallons per minute (0 to 15 liters per minute) | No-lube, no-stall design. | Up to 1/32" (1 mm) | Dry 5.83 ft. (1.78m.) Wet 25.5 ft. (7.77m.) | 10,000 SSU 2200 CPS | 100 psi or 230 ft. of water (7 Kg/cm² or 70 meters) |

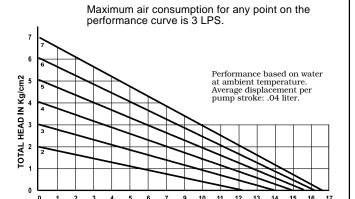
PERFORMANCE CURVES

(Pumps are designed to be powered **only** by compressed air) **Temperature Limit:** Polypropylene +40°F (+4°C) min.
..... +150°F (+66°C) max.



2.0

CAPACITY IN US GALLONS PER MINUTE



CAPACITY IN LITERS PER MINUTE

MATERIALS OF CONSTRUCTION

4.5

| Mod | lel Manifold | Outer Chamber | Outer Diaphragm Plate | Inner Diaphragm Plate | Intermediate Housing | Diaphragm Rod | Hardware | Valve Seat | Diaphragm | Ball Valve Material | Air Valve | Сар | Shipping Weight (lbs) |
|------|--------------|------------------|-----------------------------|-----------------------------|-------------------------|------------------|-----------|---------------|-----------|------------------------|-----------|-----|-----------------------------|
| 4043 | 3 PP | PP | PP | 2011-AL | PP* | 416SS | 301/302SS | PP | S | S | PP* | PP* | 4 |
| 4042 | 2 PP | PP | PP | 2011-AL | PP* | 416SS | 301/302SS | PP | Т | Т | PP* | PP* | 4 |

Vertical discharge is standard.

For optional horizontal discharge, order manifold 518-127-552 (polypropylene). For optional vertical suction, order manifold 518-128-552 (polypropylene).

Meanings of Abbreviations:

AC = Acetal AL = Aluminum CA = Conductive Acetal K = PVDF PP = Polypropylene SS = Stainless Steel T = Teflon[®]/PFA S = Santoprene[®]

*Designates Glass Filled

 $Teflon \ensuremath{^{\$}}\ is\ a\ registered\ tradename\ of\ E.I.\ du\ Pont.\quad Santoprene \ensuremath{^{\$}}\ is\ a\ registered\ tradename\ of\ Monsanto\ Corp.$

No-Stall Air Valve Guarantee

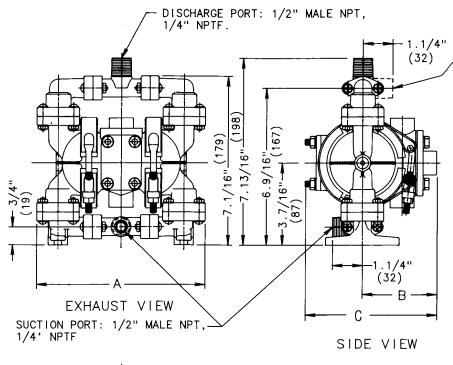
This pump is covered by a no-stall guarantee. If this pump should stall, it can be returned for repair, replacement or refund.

Models 4042, 4043

| MA WEDDIAL C | Operating Temperatures | | | |
|--|--|----------------|--------------------------------|--|
| MATERIALS | Maximum* | Minimum* | Optimum** | |
| TEFLON® Chemically inert, virtually impervious. Very few chemicals are known to chemically react with Teflon®: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures. | 212°F+ 100°C+ | -35°F -37°C | 50°F to 212°F 10°C to 100°C | |
| SANTOPRENE® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance. | 212°F+ 100°C+ | -10°F -23°C | Insufficient data available | |
| For specific applications, always consult a "Chemical Resistance Chart". | *Definite reduction in service life. **Minimal reduction in service life at ends of range | | | |

Dimensions are ± 1/8" Figures in parenthesis = millimeters

| Dimension | А | В | С | |
|---------------|----------|-------------|--------------|--|
| Standard Pump | 7" (178) | 3.1/8" (79) | 5.1/2" (140) | |



OPTIONAL HORIZONTAL DISCHARGE PORT.

SERVICE AND ACCESSORY KITS 024 407 000 Main Air Value Dadu

| 031-107-000 | Assembly |
|-------------|----------------------------|
| 031-101-000 | Pilot Valve Assembly |
| 475-145-000 | Air Exhaust Conversion Kit |
| 475-149-552 | Pail Transfer Kit in |

476-117-354

Wetted End Kit Santoprene® Diaphragms &

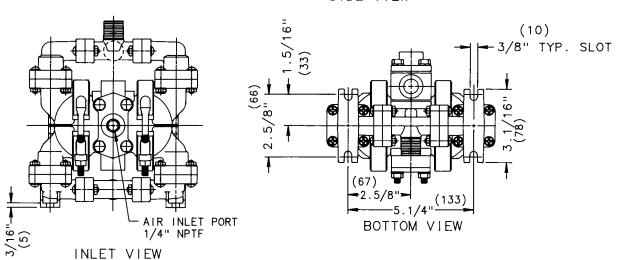
476-117-600

Wetted End Kit Telfon® Diaphragms & Balls Wetted End Kit

476-117-644

Santoprene® Diaphragms & Teflon® Balls

476-122-000 Air End Kit



¼" NPT(F) AND ½" NPT(M) SUCTION AND DISCHARGE • ¼" NPT(F) AIR INLET PORT

Specifications are subject to improvement without notice.